



Montana Department of
ENVIRONMENTAL QUALITY

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July 29, 2011

Mr. Tom Ray
Plum Creek Manufacturing Company
P.O. Box 1990
Columbia Falls, MT 59912

RE: Final Title V Operating Permit #OP2667-03

Dear Mr. Ray:

The Department of Environmental Quality has prepared the enclosed Final Operating Permit #OP2667-03, for Plum Creek Manufacturing Company's Columbia Falls Operations, located in Section 7 and the SW¼ of Section 8, Township 30 North, Range 20 West, in Flathead County, Montana. Please review the cover page of the attached permit for information pertaining to the action taking place on Permit #OP2667-03.

If you have any questions, please contact Shawn Juers, the permit writer, at (406) 444-2049 or by email at sjuers@mt.gov.

Sincerely,

Vickie Walsh
Air Permitting Program Supervisor
Air Resources Management Bureau
(406) 444-9741

Shawn Juers
Environmental Engineer
Air Resources Management Bureau
(406) 444-2049

VW:SJ

Enclosure

cc: Christopher Ajayi, US EPA Region VIII 8P-AR
Carson Coate, US EPA Region VIII, Montana Office
Mitchell Leu, Plum Creek Manufacturing Company

STATE OF MONTANA
Department of Environmental Quality
Helena, Montana 59620



AIR QUALITY OPERATING PERMIT OP2667-03

Issued to: **Plum Creek Manufacturing**
P.O. Box 1990
Columbia Falls, MT 59912-1990

Final Date: **July 29, 2011**
Expiration Date: **July 29, 2016**

Effective Date: **July 29, 2011**
Date of Decision: **June 28, 2011**
End of EPA 45-day Review: **June 27, 2011**
Proposed Issue Date: **May 13, 2011**
Draft Issue Date: **April 8, 2011**

Application Deemed Technically Complete: April 16, 2010
Application Deemed Administratively Complete: February 17, 2010
Renewal Application Received: February 17, 2010
AFS Number: 030-021-0005A

Permit Issuance and Appeal Processes: In accordance with Montana Code Annotated (MCA) Sections 75-2-217 and 218 and the Administrative Rules of Montana (ARM), ARM Title 17, Chapter 8, Subchapter 12, Operating Permit Program, this operating permit is hereby issued by the Department of Environmental Quality (Department) as effective and final on July 29, 2011. This permit must be kept on-site at the above named facility.

Montana Air Quality Operating Permit
Department of Environmental Quality

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Terms not otherwise defined in this permit or in the Definitions and Abbreviations Appendix of this permit have the meaning assigned to them in the referenced regulations.

SECTION I. GENERAL INFORMATION

The following general information is provided pursuant to ARM 17.8.1210(1).

Company Name: Plum Creek Manufacturing

Mailing Address: P.O. Box 1990

City: Columbia Falls

State: Montana

Zip: 59912-1990

Plant Location: Section 7 and the SW¼ of Section 8, Township 30 North, Range 20 West, in Flathead County, Columbia Falls, Montana

Responsible Official: Tom Ray

Phone: (406) 892-6200

Facility Contact Person: Mitchell Leu

Phone: (406) 892-6217

Primary SIC Code: 2421, 2436, 2493

Nature of Business: Lumber, Plywood, Fiberboard

Description of Process: This facility produces lumber, plywood, and a medium density fiberboard (MDF). In addition to the sawmill, plywood plant, and MDF plant, the site includes a large wood waste boiler, smaller natural gas boilers, wood waste burners used to supply heat for the MDF fiber dryers, and one wood waste burner to heat the veneer dryer.

The sawmill and plywood plant receive raw logs by truck. The logs are stored and sorted before being transferred to the sawmill for sawing into dimension lumber or to the plywood plant for peeling into veneer. Waste wood such as chips, sawdust, and planer shavings are transferred to the MDF plant for processing into fiberboard. Wood shavings and sawdust are also received from outside facilities as raw material for the fiberboard plant. Fugitive emissions from wood-waste transfer are controlled with baghouses or cyclones. Fugitive emissions from haul roads and the log deck are controlled with chemical dust suppressants.

All three plants share the Riley-Union Stoker boiler as a source of process steam for operations. The boiler uses wood as a fuel and burns a mixture of bark, sawdust, sanderdust, and reject material from the plywood and fiberboard operations. The veneer dryer is heated with wood through the use of a Wellons wood waste cell. The exhaust gases from the Wellons unit make direct contact with the veneer and then exit to atmosphere through an E-tube wet electrostatic precipitator. The MDF face and core fiber dryers are also heated primarily with wood. Three Coen sander dust burners heat the flash-tube dryers to dry the wood fiber for fiberboard manufacture. The MDF face and core fiber dryer pollution control equipment includes long cone high-efficiency cyclones followed by four wet Electrostatic Precipitators (ESPs). The line 2 MDF pollution control equipment includes two Venturi scrubbers. The facility uses biofilters to control hazardous air pollutant (HAP) emissions to comply with 40 Code of Federal Regulations (CFR) 63, Subpart DDDD.

SECTION II. SUMMARY OF EMISSION UNITS

The emission units regulated by this permit are the following (ARM 17.8.1211):

Summary of Emission Units Regulated by this Permit		
Emissions Unit ID	Description	Pollution Control Device/Practice
B01	Riley-Union Stoker Boiler	ESP following multiclone
B05	1993 Babcock and Wilcox 96.4-MMBtu/hr (75,000 lb/hr) boiler (Natural Gas/Diesel)	None
M01	Line 1 MDF Raw Material Handling Fugitives	MDF raw materials building, wind fence, and cloth chute
M02	Line 1 MDF N. Sander Baghouse #7	Baghouse
M03	Line 1 MDF S. Sander Baghouse #8	Baghouse
M04	Line 1 MDF Board Trim Fuel Baghouse #10	Baghouse
M05	Line 1 MDF Sanderdust Fuel Baghouse	Baghouse
M06	Line 1 MDF Hog Fuel Boiler Sanderdust Baghouse #11	Baghouse
M07	Line 1 MDF In-Line Baghouse #5	Baghouse
M08	Line 1 MDF CPS and In-line Baghouse #6	Baghouse
M09	Line 1 MDF Metering Bin Baghouse #1	Baghouse
M10	Line 1 MDF Felter Baghouse #1	Baghouse
M11	Line 1 MDF Felter Baghouse #2	Baghouse
M12	Line 1 MDF Reject Fiber Cyclone and Baghouse	Baghouse
M13	Line 1 MDF Materials Handling Baghouses (2)	Baghouses
M15	Line 1 MDF Face and Core Dryers and Press Vents	Primary control - four high efficiency material handling cyclones. Secondary control - four wet ESP units and biofilters.
M16	Line 1 MDF Forming and Finishing	None
M18	Line 2 MDF Fiber Dryers	Two Venturi scrubbers in line with a biofilter system.
M19	Line 2 MDF Press	Venturi scrubbers and biofilter system.
M20	Line 2 MDF North Sander Baghouse	Baghouse
M21	Line 2 MDF South Sander Baghouse	Baghouse
M22	Line 2 MDF Reject Baghouse	Baghouse
M23	Line 2 MDF Forming Baghouse	Baghouse
M24	Line 2 MDF Coen Fuel Bin Baghouse	Baghouse
M25	Line 2 MDF Hot Oil Natural Gas Burner	None
P02	Bucking Saws	None
P04	#1 Chip Truck Bin Loadout	None
P05	#2 Chip Truck Bin Loadout	None
P06	#1 Truck Bin Loadout, Sawdust	None
P07	#2 Truck Bin Loadout, Sawdust	None
P08	#3 Truck Bin Loadout, Hog Fuel	None
P14	Veneer Dryers, roof vents at feed point	None
P16	Plywood Presses	None
P19	Plywood Sander Baghouse	Baghouse
P20	Plywood 18" Trim Baghouse	Baghouse
P21	Plywood 30" Trim Baghouse	Baghouse
P22	Veneer Dryers	Wet ESP
P23	Plywood Chip Bin Cyclone	Cyclone
S02	Chop Saws	None
S05	Sawdust Truck Bin Loadout	None

Summary of Emission Units Regulated by this Permit		
Emissions Unit ID	Description	Pollution Control Device/Practice
S08	Planer Shavings Truck Bin Loadout	None
S10	Lumber Drying Kilns	None
S12	Planer #3 Cyclone	Cyclone
S14	Planer #4 Cyclone	Cyclone
S15	Planer Shavings Truck Bin Cyclone	Cyclone
S16	Sawmill Chip Bin Cyclone	Cyclone
S17	Sawmill Sawdust Target Box	Target Box
F01	Vehicle Activity	Water and Chemical stabilizers as necessary
F04	Hog Boiler Fuel Handling and Storage	None

SECTION III. PERMIT CONDITIONS

The following requirements and conditions are applicable to the facility or to specific emission units located at the facility (ARM 17.8.1211, 1212, and 1213).

A. Facility-Wide

Conditions	Rule Citation	Rule Description	Pollutant/Parameter	Limit
A.1	ARM 17.8.105	Testing Requirements	Testing Requirements	-----
A.2	ARM 17.8.304(1)	Visible Air Contaminants	Opacity	40%
A.3	ARM 17.8.304(2)	Visible Air Contaminants	Opacity	20%
A.4	ARM 17.8.308(1)	Particulate Matter, Airborne	Fugitive Opacity	20%
A.5	ARM 17.8.308(2)	Particulate Matter, Airborne	Reasonable Precautions	-----
A.6	ARM 17.8.308	Particulate Matter, Airborne	Reasonable Precaution, Construction	20%
A.7	ARM 17.8.309	Particulate Matter, Fuel Burning Equipment	Particulate Matter	$E = 0.882 * H^{-0.1664}$ or $E = 1.026 * H^{-0.233}$
A.8	ARM 17.8.310	Particulate Matter, Industrial Processes	Particulate Matter	$E = 4.10 * P^{0.67}$ or $E = 55 * P^{0.11} - 40$
A.9	ARM 17.8.322(4)	Sulfur Oxide Emissions, Sulfur in Fuel	Sulfur in Fuel (liquid or solid fuels)	1 lb/MMBtu fired
A.10	ARM 17.8.322(5)	Sulfur Oxide Emissions, Sulfur in Fuel	Sulfur in Fuel (gaseous)	50 gr/100 CF
A.11	ARM 17.8.324(3)	Hydrocarbon Emissions, Petroleum Products	Gasoline Storage Tanks	-----
A.12	ARM 17.8.324	Hydrocarbon Emissions, Petroleum Products	65,000 Gallon Capacity	-----
A.13	ARM 17.8.324	Hydrocarbon Emissions, Petroleum Products	Oil-effluent Water Separator	-----
A.14	40 CFR 68	Chemical Accident Prevention	Risk Management Plan	-----
A.15	40 CFR 63 Subpart DDDD	National Emissions Standards for Hazardous Air Pollutants for Plywood and Composite Wood Products	40 CFR 63 Subpart DDDD	40 CFR 63 Subpart DDDD
A.16	40 CFR 63 Subpart DDDDD	National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters.	40 CFR 63 Subpart DDDDD	40 CFR 63 Subpart DDDDD
A.17	ARM 17.8.342	NESHAPs General Provisions	SSM Plans	Submittal
A.18	ARM 17.8.1211(1)(c) and 40 CFR Part 98	Greenhouse Gas Reporting	Reporting	-----
A.19	ARM 17.8.1212	Reporting Requirements	Prompt Deviation Reporting	-----
A.20	ARM 17.8.1212	Reporting Requirements	Compliance Monitoring	-----
A.21	ARM 17.8.1207	Reporting Requirements	Annual Certification	-----

Conditions

- A.1. Pursuant to ARM 17.8.105, any person or persons responsible for the emission of any air contaminant into the outdoor atmosphere shall, upon written request of the Department, provide the facilities and necessary equipment (including instruments and sensing devices) and shall conduct test, emission or ambient, for such periods of time as may be necessary using methods approved by the Department.

Compliance demonstration frequencies that list “as required by the Department” refer to ARM 17.8.105. In addition, for such sources, compliance with limits and conditions listing “as required by the Department” as the frequency, is verified annually using emission factors and engineering calculations by the Department’s compliance inspectors during the annual emission inventory review; in the case of Method 9 tests, compliance is monitored during the regular inspection by the compliance inspector.

- A.2. Pursuant to ARM 17.8.304(1), Plum Creek shall not cause or authorize emissions to be discharged into the outdoor atmosphere from any source installed on or before November 23, 1968, that exhibit an opacity of 40% or greater averaged over 6 consecutive minutes, unless otherwise specified by rule or in this permit.
- A.3. Pursuant to ARM 17.8.304(2), Plum Creek shall not cause or authorize emissions to be discharged into the outdoor atmosphere from any source installed after November 23, 1968, that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes, unless otherwise specified by rule or in this permit.
- A.4. Pursuant to ARM 17.8.308(1), Plum Creek shall not cause or authorize the production, handling, transportation, or storage of any material unless reasonable precautions to control emissions of particulate matter are taken. Such emissions of airborne particulate matter from any stationary source shall not exhibit an opacity of 20% or greater averaged over 6 consecutive minutes, unless otherwise specified by rule or in this permit.
- A.5. Pursuant to ARM 17.8.308(2), Plum Creek shall not cause or authorize the use of any street, road or parking lot without taking reasonable precautions to control emissions of airborne particulate matter, unless otherwise specified by rule or in this permit.
- A.6. Pursuant to ARM 17.8.308, Plum Creek shall not operate a construction site or demolition project unless reasonable precautions are taken to control emissions of airborne particulate matter. Such emissions of airborne particulate matter from any stationary source shall not exhibit an opacity of 20% or greater averaged over 6 consecutive minutes, unless otherwise specified by rule or in this permit.
- A.7. Pursuant to ARM 17.8.309, unless otherwise specified by rule or in this permit, Plum Creek shall not cause or authorize particulate matter caused by the combustion of fuel to be discharged from any stack or chimney into the outdoor atmosphere in excess of the maximum allowable emissions of particulate matter for existing fuel burning equipment and new fuel burning equipment calculated using the following equations:

For existing fuel burning equipment (installed before November 23, 1968):

$$E = 0.882 * H^{-0.1664}$$

For new fuel burning equipment (installed on or after November 23, 1968):

$$E = 1.026 * H^{-0.233}$$

Where H is the heat input capacity in million British thermal units (MMBtu) per hour and E is the maximum allowable particulate emissions rate in pounds per MMBtu.

- A.8. Pursuant to ARM 17.8.310, unless otherwise specified by rule or in this permit, Plum Creek shall not cause or authorize particulate matter to be discharged from any operation, process, or activity into the outdoor atmosphere in excess of the maximum hourly allowable emissions of particulate matter calculated using the following equations:

For process weight rates up to 30 tons per hour: $E = 4.10 * P^{0.67}$

For process weight rates in excess of 30 tons per hour: $E = 55.0 * P^{0.11} - 40$

Where E = rate of emissions in pounds per hour and P = process weight rate in tons per hour.

- A.9. Pursuant to ARM 17.8.322(4), Plum Creek shall not burn liquid or solid fuels containing sulfur in excess of 1 pound per million Btu fired, unless otherwise specified by rule or in this permit.
- A.10. Pursuant to ARM 17.8.322(5), Plum Creek shall not burn any gaseous fuel containing sulfur compounds in excess of 50 grains per 100 cubic feet of gaseous fuel, calculated as hydrogen sulfide at standard conditions, unless otherwise specified by rule or in this permit.
- A.11. Pursuant to ARM 17.8.324(3), Plum Creek shall not load or permit the loading of gasoline into any stationary tank with a capacity of 250 gallons or more from any tank truck or trailer, except through a permanent submerged fill pipe, unless such tank is equipped with a vapor loss control device or is a pressure tank as described in ARM 17.8.324(1), unless otherwise specified by rule or in this permit.
- A.12. Pursuant to ARM 17.8.324, unless otherwise specified by rule or in this permit, Plum Creek shall not place, store or hold in any stationary tank, reservoir or other container of more than 65,000 gallon capacity any crude oil, gasoline or petroleum distillate having a vapor pressure of 2.5 pounds per square inch absolute or greater under actual storage conditions, unless such tank, reservoir or other container is a pressure tank maintaining working pressure sufficient at all times to prevent hydrocarbon vapor or gas loss to the atmosphere, or is designed and equipped with a vapor loss control device, properly installed, in good working order and in operation.
- A.13. Pursuant to ARM 17.8.324, unless otherwise specified by rule or in this permit, Plum Creek shall not use any compartment of any single or multiple-compartment oil-effluent water separator, which compartment receives effluent water containing 200 gallons a day or more of any petroleum product from any equipment processing, refining, treating, storing or handling kerosene or other petroleum product of equal or greater volatility than kerosene, unless such compartment is equipped with a vapor loss control device, constructed so as to prevent emission of hydrocarbon vapors to the atmosphere, properly installed, in good working order and in operation.
- A.14. A Risk Management Plan developed in accordance with 40 CFR 68 shall be registered and maintained, as required by 40 CFR 68.
- A.15. Pursuant to ARM 17.8.342 and 40 CFR 63, Subpart DDDD, Plum Creek shall comply with the applicable requirements of 40 CFR 63, Subpart DDDD - National Emission Standards for Hazardous Air Pollutants for Plywood and Composite Wood Products.
- A.16. Pursuant to ARM 17.8.342 and 40 CFR 63, Subpart DDDDD, Plum Creek shall comply with the applicable requirements of 40 CFR 63, Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters.
- A.17. Pursuant to ARM 17.8.342 and 40 CFR 63.6, Plum Creek shall submit to the Department a copy of any startup, shutdown, and malfunction (SSM) plan required under 40 CFR 63.6(e)(3) within 30 days of the effective date of this operating permit (if not previously submitted), within 30 days of the compliance date of any new National Emission Standard for Hazardous Air Pollutants (NESHAPs) or Maximum Achievable Control Technology (MACT) standard, and within 30 days of the revision of any such SSM plan, when applicable. The Department requests submittal of such plans in electronic form, when possible.

- A.18. Pursuant to ARM 17.8.1211(1)(c) and 40 CFR Part 98, Plum Creek shall comply with requirements of 40 CFR Part 98 – Mandatory Greenhouse Gas Reporting, as applicable (ARM 17.8.1211(1)(c), NOT an applicable requirement under Title V).
- A.19. Plum Creek shall promptly report deviations from permit requirements including those attributable to upset conditions, as upset is defined in the permit. To be considered prompt, deviations shall be reported to the Department using the schedule and content as described in Section V.E (unless otherwise specified in an applicable requirement) (ARM 17.8.1212).
- A.20. On or before February 15 and August 15 of each year, Plum Creek shall submit to the Department the compliance monitoring reports required by Section V.D. These reports must contain all information required by Section V.D, as well as the information required by each individual emissions unit. For the reports due by February 15 of each year, Plum Creek may submit a single report, provided that it contains all the information required by Section V.B & V.D. Per ARM 17.8.1207,

any application form, report, or compliance certification submitted pursuant to ARM Title 17, Chapter 8, Subchapter 12 (including semiannual monitoring reports), shall contain certification by a responsible official of truth, accuracy and completeness. This certification and any other certification required under ARM Title 17, Chapter 8, Subchapter 12, shall state that, “based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.”

- A.21. By February 15 of each year, Plum Creek shall submit to the Department the compliance certification required by Section V.B. The annual certification required by Section V.B must include a statement of compliance based on the information available which identifies any observed, documented or otherwise known instance of noncompliance for each applicable requirement. Per ARM 17.8.1207,

any application form, report, or compliance certification submitted pursuant to ARM Title 17, Chapter 8, Subchapter 12 (including annual certifications), shall contain certification by a responsible official of truth, accuracy and completeness. This certification and any other certification required under ARM Title 17, Chapter 8, Subchapter 12, shall state that, “based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.”

B. B01: Riley-Union Stoker Boiler**292.4 MMBtu/hr Stoker Boiler**

Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration		Reporting Requirement
			Method	Frequency	
B.1, B.9, B.10, B.15, B.16, B.17, B.20, B.21, B.22	Opacity	20% / 60% (ARM 17.8.304(3))	Visual Surveys	Weekly	Semiannual
			Method 9	Semiannually	
B.2, B.10, B.11, B.13, B.16, B.17, B.18, B.20, B.21, B.22	Particulate Matter	8.77 lb/hr	Method 5	Every three years	Semiannual
B.3, B.10, B.11, B.13, B.16, B.17, B.18, B.20, B.21, B.22	PM ₁₀	6.94 lb/hr	Method 201A	Every three years	
B.4, B.12, B.16, B.20, B.21, B.22	NO _x	134.50 lb/hr	Method 7E	Every three years	Semiannual
B.5, B.12, B.16, B.20, B.21, B.22	CO	468 lb/hr	Method 10	Every three years	
B.6, B.13, B.18, B.20, B.21, B.22	ESP	Operate and Maintain	Inspection / CAM Plan	Ongoing	Semiannual
B.7, B.14, B.19, B.20, B.21, B.22	Sulfur in Fuel (liquid or solid)	<1 lb Sulfur per MMBtu fired	Recordkeeping	Ongoing	
B.8, B.14, B.19, B.20, B.21, B.22	Sulfur in Fuel (gaseous)	50 gr/100 CF	Recordkeeping	Ongoing	

Conditions

- B.1. Plum Creek shall not cause or authorize emissions to be discharged into the outdoor atmosphere from any source that exhibit an opacity of 20% or greater averaged over six consecutive minutes (ARM 17.8.304(2)). During the building of new fires, cleaning of grates, or soot blowing, ARM 17.8.304(2) applies except that a maximum average opacity of 60% is permissible for not more than one 4-minute period in any 60 consecutive minutes (ARM 17.8.304(3)).
- B.2. Total PM emissions from the Riley-Union Stoker boiler shall be limited to 8.77 lb/hr (ARM 17.8.752).
- B.3. PM₁₀ emissions from the Riley-Union Stoker boiler shall be limited to 6.94 lb/hr (ARM 17.8.749 and ARM 17.8.752).
- B.4. NO_x (reported as NO₂) emissions from the Riley-Union Stoker boiler shall be limited to 134.50 lb/hr (ARM 17.8.752).
- B.5. CO emissions from the Riley-Union Stoker boiler shall be limited to 468 lb/hr (ARM 17.8.752).
- B.6. Plum Creek shall operate and maintain the electro-static precipitator (ESP) on the Riley-Union Stoker boiler (ARM 17.8.752).
- B.7. Plum Creek shall not burn liquid or solid fuels containing sulfur in excess of 1 pound per million British thermal unit (lb/MMBtu) fired (ARM 17.8.322(4)).

- B.8. Plum Creek shall not burn any gaseous fuel containing sulfur compounds in excess of 50 grains per 100 cubic feet of gaseous fuel, calculated as hydrogen sulfide at standard conditions (ARM 17.8.322(5)).

Compliance Demonstration

- B.9. Plum Creek shall demonstrate compliance with the opacity limitations of Section III.B.1 through visual surveys and EPA Method 9 Tests as follows:

Plum Creek shall conduct either a semiannual Method 9 source test or a weekly visual survey of visible emissions on the Riley-Union Stoker boiler. Under the visual survey option, once per calendar week, during daylight hours, Plum Creek shall visually survey for any visible emissions. If visible emissions are observed during the visual survey, Plum Creek shall conduct a Method 9 source test. The Method 9 source test shall begin within one hour of any observation of visible emissions. If visible emissions meet or exceed 15% opacity based on the Method 9 source test, Plum Creek shall immediately take corrective action to contain or minimize the source of emissions. If corrective actions are taken, then Plum Creek shall immediately conduct a subsequent visual survey (and subsequent Method 9 source test if visible emissions remain) to monitor compliance. The person conducting the visual survey shall record the results of the survey (including the results of any Method 9 source test performed) in a log, including any corrective action taken. Conducting a visual survey does not relieve Plum Creek of the liability for a violation determined using Method 9 (ARM 17.8.101(27)).

If the visual surveys are not performed once per calendar week as specified above during the reporting period, then Plum Creek shall perform the Method 9 source tests on the Riley-Union Stoker boiler for that reporting period.

Method 9 source tests shall be performed in accordance with the Montana Source Test Protocol and Procedures Manual, except that prior notification of the test is not required. Each observation period must be a minimum of 6 minutes unless any one reading is 20% or greater, then the observation period must be a minimum of 20 minutes or until a violation of the standard has been documented, whichever is a shorter period of time (ARM 17.8.1213).

- B.10. Plum Creek shall operate the multiclone whenever the Riley-Union Stoker boiler is fired. Plum Creek shall keep records of maintenance performed as required by Section III.B.17. Any operation of the boiler without use of the multiclone shall be recorded in a log as required by Section III.B.17 (ARM 17.8.1213).
- B.11. Plum Creek shall test, on an every three year basis, or according to another testing/monitoring schedule as approved by the Department, the Riley-Union Stoker boiler ESP to demonstrate compliance with the emission limitations in Sections III.B.2 and III.B.3, respectively. The test methods shall conform to 40 CFR 51, Appendix M, including back-half, for PM₁₀; 40 CFR 60, Appendix A including back half, for total particulate; and the Montana Source Test Protocol and Procedures Manual. The Department may allow a total particulate test only if the back-half is included and it is acknowledged by the Department that this test can be used as a surrogate for PM₁₀ (ARM 17.8.1213, ARM 17.8.105, ARM 17.8.106).
- B.12. Plum Creek shall test, on an every three year basis, or according to another testing/monitoring schedule as approved by the Department, the Riley-Union Stoker boiler ESP for NO_x and CO concurrently. The tests shall be used to demonstrate compliance with the emission limitations in Section III.B.4 and III.B.5, respectively. The test methods shall conform to 40 CFR Part 60, Appendix A and the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106 and ARM 17.8.1213).

- B.13. Plum Creek shall perform at least semiannual inspections of the ESP on the Riley-Union Stoker boiler. The inspections shall be conducted in accordance with the manufacturer's recommendations. Inspections shall be recorded in a log as required by Section III.B.18. Further, Plum Creek shall monitor ESP performance in accordance with Appendix E, Compliance Assurance Monitoring (ARM 17.8.1213).
- B.14. Compliance with the sulfur in fuel limit(s) of Section III.B.7 and III.B.8 shall be accomplished through burning only wood-waste and/or pipeline quality natural gas for boiler operations. Plum Creek shall maintain a fuel log as required by Section III.B.19 to demonstrate compliance (ARM 17.8.1213).

Recordkeeping

- B.15. If weekly visual surveys are performed, Plum Creek shall maintain, on-site, a log including all visual observations monitoring compliance with the visual survey requirement. The log shall include the required information, the date, the time, and the initials of the documenting personnel. The log shall be maintained on-site for a minimum of 5 years from the date the record is made and must be submitted to the Department upon request (ARM 17.8.1212).
- B.16. All compliance source test recordkeeping shall be performed in accordance with the test method used and the Montana Source Test Protocol and Procedures Manual, and shall be maintained on-site. The reports must be submitted in accordance with the Montana Source Test Protocol and Procedures Manual except that any Method 9 source test reports shall be maintained on-site for a minimum of 5 years from the date the test occurred and shall be submitted to the Department only upon Department request (ARM 17.8.106 and ARM 17.8.1212).
- B.17. Plum Creek shall record in a log any circumvention of the multiclone while operating the Riley-Union Stoker boiler as required by Section III.B.10. In addition, major and preventative maintenance activities involving the boiler or multiclone shall be recorded in a log. Each log entry must include the date, time, the maintenance activity or preventive action taken, the operational status including the fuel types and rates burned in the boiler during this time, and the initials of the documenting personnel. The log must be maintained on-site for a minimum of 5 years from the date the record is made and shall be submitted to the Department upon request (ARM 17.8.1212).
- B.18. Plum Creek shall record inspections and maintenance performed. Each log entry must include the date, results of the inspection, and any maintenance activity or preventive action conducted. The log shall be maintained on-site for a minimum of 5 years from the date the record is made and shall be submitted to the Department upon request (ARM 17.8.1212).
- B.19. Plum Creek shall maintain a fuel log indicating any time a material other than wood waste or pipeline quality natural gas is burned in the Riley-Union Stoker boiler. The log must include the date, time, material, quantity of material fed into the boiler, and the initials of the documenting personnel. The log must be maintained on-site and must be submitted to the Department upon request (ARM 17.8.1212).

Reporting

- B.20. All source test report(s) shall be submitted to the Department in accordance with the Montana Source Test Protocol and Procedures Manual except that the Method 9 source test reports shall be maintained on-site for a minimum of 5 years from the date the test occurred and shall be submitted to the Department only upon request (ARM 17.8.1212).

- B.21. The annual compliance certification required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).
- B.22. The semiannual compliance monitoring reports shall provide (ARM 17.8.1212):
- A summary of the results contained in the weekly visual observations log;
 - A summary of results of any source testing that was performed during the reporting period;
 - A brief summary of the multiclone operation and maintenance log;
 - A brief summary of the ESP operation and maintenance log; and
 - A summary of any recordkeeping in the fuel log as required by Section III.B.19.

C. B05: 96.4 MMBtu/hr Natural Gas/Diesel Fired Boiler

Permit Condition(s)	Pollutant/Parameter	Permit Limit	Compliance Demonstration		Reporting Requirement
			Method	Frequency	
C.1, C.13, C.14, C.22, C.23, C.26, C.28, C.29	Opacity	20%	Pipeline Quality Natural Gas Only	Ongoing	Semiannual
			Visual Surveys when burning diesel fuel	Weekly	Semiannual
			Method 9	Semiannually	Semiannual
C.2, C.15, C.22, C.26, C.28, C.29	PM – Natural Gas Fuel	0.73 lb/hr	Method 5	As Required by the Department and Section III.A.1	Semiannual
C.3, C.15, C.22, C.26, C.28, C.29	PM ₁₀ – Natural Gas Fuel	0.73 lb/hr	Method 5	As Required by the Department and Section III.A.1	Semiannual
C.4, C.16, C.22, C.26, C.28, C.29	PM – Diesel Fuel	1.37 lb/hr	Method 5	As Required by the Department and Section III.A.1	Semiannual
C.5, C.16, C.22, C.26, C.28, C.29	PM ₁₀ – Diesel Fuel	1.37 lb/hr	Method 5	As Required by the Department and Section III.A.1	Semiannual
C.6, C.17, C.22, C.26, C.28, C.29	NO _x – Natural Gas Fuel	6.75 lb/hr and 0.07 lb/MMBtu	Method 7	Initial and as Required by the Department and Section III.A.1	Semiannual
C.7, C.18, C.22, C.26, C.28, C.29	NO _x – Diesel Fuel	13.74 lb/hr	Method 7	Initial and as Required by the Department and Section III.A.1	Semiannual
C.8, C.17, C.22, C.26, C.28, C.29	CO – Natural Gas Fuel	7.91 lb/hr and 0.082 lb/MMBtu	Method 10	Initial and as Required by the Department and Section III.A.1	Semiannual
C.9, C.18, C.22, C.26, C.28, C.29	CO – Diesel Fuel	3.44 lb/hr	Method 10	Initial and as Required by the Department and Section III.A.1	Semiannual

C.10, C.19, C.24, C.28, C.29	Diesel Fuel Specifications	≤ 0.05% Sulfur	Recordkeeping	Ongoing	Semiannual
C.11, C.20, C.24, C.28, C.29	Diesel Fuel Consumption	165,000 gallons/ year	Recordkeeping	Ongoing	Semiannual
C.12, C.21, C.25, C.28, C.29, C.27	40 CFR 60, Subpart Dc	40 CFR 60, Subpart Dc	40 CFR 60, Subpart Dc	40 CFR 60, Subpart Dc	Semiannual

Conditions

- C.1. Visible emissions shall be limited to 20% opacity averaged over 6 consecutive minutes (ARM 17.8.304).
- C.2. Emissions of total particulate from the boiler shall be limited to 0.73 lb/hr when burning natural gas (ARM 17.8.752).
- C.3. Emissions of PM₁₀ from the boiler shall be limited to 0.73 lb/hr when burning natural gas (ARM 17.8.752).
- C.4. Emissions of total particulate from the boiler shall be limited to 1.37 lb/hr when burning diesel fuel (ARM 17.8.752).
- C.5. Emissions of PM₁₀ from the boiler shall be limited to 1.37 lb/hr when burning diesel fuel (ARM 17.8.752).
- C.6. Boiler emissions of NO_x¹ shall be limited to 6.75 lb/hr and 0.07 lb/MMBtu when burning natural gas (ARM 17.8.752).
- C.7. Boiler emissions of NO_x¹ shall be limited to 13.74 lb/hr when burning diesel fuel (ARM 17.8.752).
- C.8. Boiler emissions of CO shall be limited to 7.91 lb/hr and 0.082 lb/MMBtu when burning natural gas (ARM 17.8.752).
- C.9. Boiler emissions of CO shall be limited to 3.44 lb/hr when burning diesel fuel (ARM 17.8.752).
- C.10. Diesel fuel burned in the boiler shall have sulfur content of 0.05% by weight or less (ARM 17.8.752).
- C.11. Burning of diesel fuel shall be limited to 165,000 gallons during any rolling 12-month time period (ARM 17.8.752).
- C.12. Plum Creek shall comply with all applicable requirements contained in 40 CFR Part 60 for the boiler (ARM 17.8.340).

Compliance Demonstration

- C.13. Plum Creek shall maintain a log of fuel usage as required by Section III.C.22. If, during any given calendar week, only natural gas fuel is fired for boiler operations, opacity compliance shall be demonstrated through burning only pipeline quality natural gas (ARM 17.8.1213).

- C.14. If, during any given calendar week, diesel fuel is fired for boiler operations, Plum Creek shall demonstrate compliance with the opacity limitations of Section III.C.1 through visual surveys and EPA Method 9 Tests as follows:

Plum Creek shall conduct either a semiannual Method 9 source test or a weekly visual survey of visible emissions on the boiler. Under the visual survey option, once per calendar week, during daylight hours, Plum Creek shall visually survey for any visible emissions. If visible emissions are observed during the visual survey, Plum Creek shall conduct a Method 9 source test. The Method 9 source test shall begin within one hour of any observation of visible emissions. If visible emissions meet or exceed 15% opacity based on the Method 9 source test, Plum Creek shall immediately take corrective action to contain or minimize the source of emissions. If corrective actions are taken, then Plum Creek shall immediately conduct a subsequent visual survey (and subsequent Method 9 source test if visible emissions remain) to monitor compliance. The person conducting the visual survey shall record the results of the survey (including the results of any Method 9 source test performed) in a log, including any corrective action taken. Conducting a visual survey does not relieve Plum Creek of the liability for a violation determined using Method 9 (ARM 17.8.101(27)).

If the visual surveys are not performed once per calendar week as specified above during the reporting period, then Plum Creek shall perform the Method 9 source tests on the boiler for that reporting period.

Method 9 source tests shall be performed in accordance with the Montana Source Test Protocol and Procedures Manual, except that prior notification of the test is not required. Each observation period must be a minimum of 6 minutes unless any one reading is 20% or greater, then the observation period must be a minimum of 20 minutes or until a violation of the standard has been documented, whichever is a shorter period of time (ARM 17.8.1213).

- C.15. As required by the Department and Section III.A.1, while firing natural gas, Plum Creek shall conduct a Method 5 source test, or another test method as approved in writing by the Department, for total particulate and PM₁₀ to demonstrate compliance with Section III.C.2 and Section III.C.3. The test shall be performed in accordance with the test method used and the Montana Source Test Protocol and Procedures Manual (ARM 17.8.1213).
- C.16. As required by the Department and Section III.A.1, while firing diesel fuel, Plum Creek shall conduct a Method 5 source test, including back half, or another Department-approved source test method, for total PM and PM₁₀ to demonstrate compliance with Section III.C.4 and Section III.C.5. The test shall be performed in accordance with the test method used and the Montana Source Test Protocol and Procedures Manual (ARM 17.8.1213).
- C.17. The boiler shall be initially tested, while burning natural gas, for NO_x and CO, concurrently, to demonstrate compliance with the emission limits in Sections III.C.6 and Section III.C.8, respectively. The initial source testing shall be conducted within 180 days of the initial start-up date of the boiler. After the initial source test, additional source testing shall be conducted as required by the Department and Section III.A.1 (ARM 17.8.105, ARM 17.8.749, and ARM 17.8.1213).
- C.18. The boiler shall be initially tested while burning diesel fuel for NO_x and CO, concurrently, to demonstrate compliance with the emission limits in Sections III.C.7 and III.C.9, respectively. The initial source testing shall be conducted within 180 days of the initial start-up date of the boiler. After the initial source test, additional source testing shall be conducted as required by the Department and Section III.A.1 (ARM 17.8.105, ARM 17.8.749, and ARM 17.8.1213).

- C.19. Demonstrating compliance with the diesel fuel sulfur content limit in Section III.C.10 shall be accomplished through recordkeeping, as required by section III.C.24. Plum Creek shall maintain a fuel log including the sulfur content of all diesel fuel fired for boiler operations (ARM 17.8.1213).
- C.20. Demonstrating compliance with the diesel fuel consumption limit in Section III.C.9 shall be accomplished through recordkeeping. Plum Creek shall document, by month, the amount of diesel fuel combusted. By the 25th day of each month, Plum Creek shall total the amount of diesel fuel combusted during the previous month. The monthly information will be used to verify compliance with the rolling 12-month limitation in Section III.C.9. The information for each of the previous months shall be submitted along with the annual emission inventory (ARM 17.8.1213).
- C.21. Demonstrating compliance with 40 CFR Part 60, as applicable, shall be accomplished through recordkeeping as required in 40 CFR Part 60 (ARM 17.8.340, ARM 17.8.1213, and 40 CFR 60, Subparts A and Dc).

Recordkeeping

- C.22. All compliance source test recordkeeping shall be performed in accordance with the test method used and the Montana Source Test Protocol and Procedures Manual, and shall be maintained on-site. The reports must be submitted in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106 and ARM 17.8.1212).
- C.23. If diesel fuel is fired during the reporting period, Plum Creek shall maintain, on-site, a log including all visual observations demonstrating compliance with the visual survey requirement as required by Section III.C.12. The log shall include the required information, the date, the time, and the initials of the documenting personnel. The log shall be maintained on-site for a minimum of 5 years from the date the record is made and must be submitted to the Department upon request (ARM 17.8.1212).
- C.24. Plum Creek shall maintain a boiler operations log including the type of fuel fired for boiler operations on an ongoing basis, the sulfur content of all diesel fuel fired for boiler operations, and the amount of fuel fired on an ongoing basis. The log shall include the date, time, and the initials of the documenting personnel. The log shall be maintained on-site for a minimum of 5 years from the date the record is made and must be submitted to the Department upon request (ARM 17.8.1212).
- C.25. Plum Creek shall comply with all applicable recordkeeping requirements contained in 40 CFR 60 (ARM 17.8.340, ARM 17.8.1212, and 40 CFR 60, Subparts A and Dc).

Reporting

- C.26. All source test report(s) shall be submitted to the Department in accordance with the Montana Source Test Protocol and Procedures Manual except that the Method 9 source test reports shall be maintained on-site and shall be submitted to the Department only upon request (ARM 17.8.1212).
- C.27. Plum Creek shall comply with the applicable reporting requirements of 40 CFR 60, as applicable.
- C.28. The annual compliance certification required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).

C.29. The semiannual compliance monitoring reports shall provide (ARM 17.8.1212):

- a. If weekly visual surveys are performed during the reporting period, a summary of the results contained in the weekly visual observations log;
- b. A summary of results of any source testing that was performed during the reporting period;
- c. A summary of the diesel fuel sulfur content recordkeeping required in Section III.C.19;
- d. A summary of boiler diesel fuel consumption log information required in Section III.C.20; and
- e. Summary of applicability and compliance with the applicable requirements contained in 40 CFR Part 60, as applicable.

D. M01: MDF Raw Material Handling Fugitives

Permit Condition(s)	Pollutant/Parameter	Permit Limit	Compliance Demonstration		Reporting Requirement
			Method	Frequency	
D.1, D.3, D.5, D.6, D.8, D.9, D.10	Opacity	20%	Visual Surveys	Weekly	Semiannual
			Method 9	Semiannually	
D.2, D.4, D.7, D.9, D.10	Particulate Matter, Industrial Processes	$E=55 \cdot P^{0.11} - 40$	Management Practices and Method 5	Ongoing / As Required by the Department and Section III.A.1	

Conditions

- D.1. Plum Creek shall not cause or authorize emissions to be discharged into the outdoor atmosphere from any source that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304(2)).
- D.2. The maximum hourly emissions of particulate matter shall not exceed the value calculated by $E = 55.0 \cdot P^{0.11} - 40$, where E is the rate of emissions in pounds per hour and P is the process weight rate in tons per hour (ARM 17.8.310).

Compliance Demonstration

- D.3. Plum Creek shall demonstrate compliance with the opacity limitations of Section III.D.1 through visual surveys and EPA Method 9 Tests as follows:

Plum Creek shall conduct either a semiannual Method 9 source test or a weekly visual survey of visible emissions. Under the visual survey option, once per calendar week, during daylight hours, Plum Creek shall visually survey for any visible emissions. If visible emissions are observed during the visual survey, Plum Creek shall conduct a Method 9 source test. The Method 9 source test shall begin within one hour of any observation of visible emissions. If visible emissions meet or exceed 15% opacity based on the Method 9 source test, Plum Creek shall immediately take corrective action to contain or minimize the source of emissions. If corrective actions are taken, then Plum Creek shall immediately conduct a subsequent visual survey (and subsequent Method 9 source test if visible emissions remain) to monitor compliance. The person conducting the visual survey shall record the results of the survey (including the results of any Method 9 source test performed) in a log, including any corrective action taken. Conducting a visual survey does not relieve Plum Creek of the liability for a violation determined using Method 9 (ARM 17.8.101(27)).

If the visual surveys are not performed once per calendar week as specified above during the reporting period, then Plum Creek shall perform the Method 9 source tests for that reporting period.

Method 9 source tests shall be performed in accordance with the Montana Source Test Protocol and Procedures Manual, except that prior notification of the test is not required. Each observation period must be a minimum of 6 minutes unless any one reading is 20% or greater, then the observation period must be a minimum of 20 minutes or until a violation of the standard has been documented, whichever is a shorter period of time (ARM 17.8.1213).

- D.4. Plum Creek shall demonstrate compliance with Section III.D.2 through the following (ARM 17.8.1213):
- a. Plum Creek shall maintain a chute to control fugitive dust from the stacker discharge, or use other methods as approved by the Department. Plum Creek shall visually inspect the cloth chute to ensure proper operations and maintenance of the cloth chute at least quarterly and shall maintain a log as required by Section III.D.7.
 - b. Plum Creek shall maintain a wind fence to reduce fugitive dust emissions from loose materials in the MDF Raw Material Handling area, or use other methods as approved by the Department. Plum Creek shall visually inspect the wind fence at least quarterly and shall maintain a log as required by Section III.D.7.
 - c. Plum Creek shall perform a Method 5 Test, or another test as approved by the Department, as required by the Department and Section III.A.1.

Recordkeeping

- D.5. If weekly visual surveys are performed, Plum Creek shall maintain, on-site, a log including all visual observations monitoring compliance with the visual survey requirement. The log shall include the required information, the date, the time, and the initials of the documenting personnel (ARM 17.8.1212).
- D.6. All compliance source test recordkeeping shall be performed in accordance with the test method used and the Montana Source Test Protocol and Procedures Manual, and shall be maintained on-site (ARM 17.8.106 and ARM 17.8.1212).
- D.7. Plum Creek shall log inspections and maintenance of the chute and wind fence. The log shall include the date and any preventative or corrective maintenance performed. The date and duration of any alternative methods used shall also be logged (ARM 17.8.1212).

Reporting

- D.8. All source test report(s) shall be submitted to the Department in accordance with the Montana Source Test Protocol and Procedures Manual except that the Method 9 source test reports shall be maintained on-site and shall be submitted to the Department only upon request (ARM 17.8.1212).
- D.9. The annual compliance certification required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).

D.10. The semiannual compliance monitoring reports shall provide (ARM 17.8.1212):

- a. If weekly visual surveys are performed during the reporting period, a summary of the results contained in the weekly visual observations log;
- b. A summary of results of any source testing that was performed during the reporting period; and
- c. A brief summary of the inspections and maintenance log.

E. M02-M11 Line 1 MDF Material Handling Baghouses

M02 - MDF N. Sander Baghouse #7; M03 - MDF S. Sander Baghouse #8; M04 - MDF Board Trim Fuel Baghouse #10; M05 - MDF Sanderdust Fuel Baghouse; M06 - MDF Hog Fuel Boiler Sanderdust Baghouse #11; M07 – Booksaw Baghouse; M08 – Sander Hog Baghouse; M09 - MDF Metering Bin Baghouse #1; M10 - MDF Felter Baghouse #1; M11 - MDF Felter Baghouse #2

Permit Condition(s)	Pollutant/Parameter	Permit Limit	Compliance Demonstration		Reporting Requirement
			Method	Frequency	
E.1, E.4, E.9, E.10, E.13, E.14, E.15	Opacity	20%	Visual Surveys	Weekly	Semiannual
			Method 9	Semiannually	
E.2, E.4, E.5, E.6, E.7, E.10, E.11, E.13, E.14, E.15	Particulate Matter/PM ₁₀	See Table E.2.	Operation and maintenance of baghouses	Ongoing	
			40 CFR 60, Appendix A, including back half	As Required by the Department and Section III.A.1	
			40 CFR 51, Appendix M, including back half	As Required by the Department and Section III.A.1	
E.3, E.8, E.12, E.13, E.14, E.15	Hours of Operation	8,500 hr/yr	Recordkeeping	Ongoing	

E.1. Plum Creek shall not cause or authorize emissions to be discharged into the outdoor atmosphere from any emissions point in the total MDF process (M02 – M11), that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304(2)).

E.2. Plum Creek shall comply with the emission limitations contained in Table E.2 (ARM 17.8.749 and ARM 17.8.752).

Table E.2			
Emissions Unit	Total Particulate Emissions Limit	PM ₁₀ Emissions Limit	Rule Citation
M02 – Line 1 MDF North Sander Baghouse #7	2.12 lb/hr	2.12 lb/hr	ARM 17.8.749 and ARM 17.8.752
M03 – Line 1 MDF South Sander Baghouse #8	2.12 lb/hr	2.12 lb/hr	ARM 17.8.749 and ARM 17.8.752
M04 - Line 1 MDF Board Trim Baghouse #10	0.52 lb/hr	0.52 lb/hr	ARM 17.8.749 and ARM 17.8.752
M05- Line 1 MDF Sanderdust Fuel Baghouse	0.16 lb/hr	0.16 lb/hr	ARM 17.8.749 and ARM 17.8.752
M06 – Line 1 MDF Hog Fuel Boiler Sanderdust Baghouse #11	0.58 lb/hr	0.58 lb/hr	ARM 17.8.749 and ARM 17.8.752

M07 – Line 1 MDF In-Line Baghouse #5	1.93 lb/hr	1.93 lb/hr	ARM 17.8.749 and ARM 17.8.752
M08 – Line 1 MDF CPS and In-line Baghouse #6 (Sander Hog Baghouse #6)	1.93 lb/hr	1.93 lb/hr	ARM 17.8.749 and ARM 17.8.752
M09 – Line 1 MDF Metering Bin Baghouse #1	1.93 lb/hr	1.93 lb/hr	ARM 17.8.749 and ARM 17.8.752
M10- Line 1 MDF Felter Baghouse #1	1.93 lb/hr	1.93 lb/hr	ARM 17.8.749 and ARM 17.8.752
M11 – Line 1 MDF Felter Baghouse #2	1.93 lb/hr	1.93 lb/hr	ARM 17.8.749 and ARM 17.8.752

- E.3. Hours of operation of the Line 1 MDF plant shall be limited to 8,500 hours during any rolling 12-month time period (ARM 17.8.749).

Compliance Demonstration

- E.4. Plum Creek shall demonstrate compliance with the opacity limitations of Section III.E.1 through visual surveys and EPA Method 9 Tests as follows:

Plum Creek shall conduct either a semiannual Method 9 source test or a weekly visual survey of visible emissions on the M02-M11 Line 1 MDF Material Handling Baghouses. Under the visual survey option, once per calendar week, during daylight hours, Plum Creek shall visually survey for any visible emissions. If visible emissions are observed during the visual survey, Plum Creek shall conduct a Method 9 source test. The Method 9 source test shall begin within one hour of any observation of visible emissions. If visible emissions meet or exceed 15% opacity based on the Method 9 source test, Plum Creek shall immediately take corrective action to contain or minimize the source of emissions. If corrective actions are taken, then Plum Creek shall immediately conduct a subsequent visual survey (and subsequent Method 9 source test if visible emissions remain) to monitor compliance. The person conducting the visual survey shall record the results of the survey (including the results of any Method 9 source test performed) in a log, including any corrective action taken. Conducting a visual survey does not relieve Plum Creek of the liability for a violation determined using Method 9 (ARM 17.8.101(27)).

If the visual surveys are not performed once per calendar week as specified above during the reporting period, then Plum Creek shall perform the Method 9 source tests on the M02-M11 Line 1 MDF Material Handling Baghouses for that reporting period.

Method 9 source tests shall be performed in accordance with the Montana Source Test Protocol and Procedures Manual, except that prior notification of the test is not required. Each observation period must be a minimum of 6 minutes unless any one reading is 20% or greater, then the observation period must be a minimum of 20 minutes or until a violation of the standard has been documented, whichever is a shorter period of time (ARM 17.8.1213).

- E.5. If any point source within the total Line 1 MDF process (M02 – M11) exceeds an applicable opacity limit, the Department may require all point sources in that process to be tested to determine compliance with mass emission limits. These tests shall conform to EPA test specifications under 40 CFR 60, Appendix A, including back half. PM₁₀ tests shall conform to 40 CFR 51, Appendix M, including back half and the Montana Source Test Protocol and Procedures Manual. All sources where tests are required must be equipped with stacks and sampling ports, with safe access for the sampling personnel. The Department may allow a total particulate test only in the back half is included and it is acknowledged this test can be used as a surrogate for PM₁₀ (ARM 17.8.105, ARM 17.8.106, ARM 17.8.1213).

- E.6. As required by the Department and Section III.A.1, Plum Creek shall perform a test, according to a test method approved in writing by the Department, to demonstrate compliance with the particulate emission limits in Section III Table E.2. Any method approved by the Department shall include condensable particulate matter testing (ARM 17.8.1213).
- E.7. Plum Creek shall operate and maintain the Line 1 MDF materials baghouses. The MDF Material Handling baghouses shall be inspected at least quarterly for wear, plugging, abrasion, and general integrity of the control device (ARM 17.8.1213).
- E.8. Demonstrating compliance with the operational limit in Section III.E.3 shall be accomplished through recordkeeping. Plum Creek shall document, by month, the total hours of operation for the affected unit(s). By the 25th day of each month, Plum Creek shall total the hours of operation during the previous month. The monthly information will be used to verify compliance with the rolling 12-month limitation in Section III.E.3 (ARM 17.8.1213).

Recordkeeping

- E.9. If weekly visual surveys are performed, Plum Creek shall maintain, on-site, a log including all visual observations demonstrating compliance with the visual survey requirement. The log shall include the required information, the date, the time, and the initials of the documenting personnel (ARM 17.8.1212).
- E.10. All compliance source test recordkeeping shall be performed in accordance with the test method used and the Montana Source Test Protocol and Procedures Manual, and shall be maintained on-site. The reports must be submitted in accordance with the Montana Source Test Protocol and Procedures Manual except that the Method 9 source test reports shall be maintained on-site and shall be submitted to the Department only upon request (ARM 17.8.106 and ARM 17.8.1212).
- E.11. Plum Creek shall maintain a log of inspections and maintenance as required by Section III.E.7. Each log entry must include the date and results of the inspection. Maintenance activity of any preventive or corrective action taken for each control device shall be recorded in the maintenance log. The log shall be maintained on-site and shall be submitted to the Department upon request (ARM 17.8.1212).
- E.12. Plum Creek shall maintain on-site an operations log documenting the hours of operation for the affected units, as described in Section III.E.7. The log shall be maintained on-site and shall be submitted to the Department upon request (ARM 17.8.1212).

Reporting

- E.13. All source test report(s) shall be submitted to the Department in accordance with the Montana Source Test Protocol and Procedures Manual except that the Method 9 source test reports shall be maintained on-site and shall be submitted to the Department only upon request (ARM 17.8.1212).
- E.14. The annual compliance certification required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).
- E.15. The semiannual compliance monitoring reports shall provide (ARM 17.8.1212):
 - a. If weekly visual surveys are performed during the reporting period, a summary of the results contained in the weekly visual observations log;
 - b. A summary of results of any source testing that was performed during the reporting period;

- c. A brief summary of the inspections and maintenance log; and
- d. A summary of the affected unit(s) operating hours as required in Section III.E.8.

F. M13 - Line 1 MDF ADS Baghouses combined exhaust stack (M13a and M13b - 2 baghouses combined to one exhaust stream)

This system consists of two baghouses (because of the size of the stream being controlled) which are then combined back into one exhaust.

Permit Condition(s)	Pollutant Parameter	Permit Limit	Compliance Demonstration		Reporting Requirement
			Method	Frequency	
F.1, F.5, F.10, F.11, F.14, F.15, F.16	Opacity	20%	Visual Surveys	Weekly	Semiannual
			Method 9	Semiannually	
F.2, F.6, F.7, F.11, F.14, F.15, F.16	Particulate Matter / PM ₁₀	See Table F.2.	Testing	Every three years	
F.3, F.8, F.12, F.15, F.16	Hours of Operation	8500 hrs/yr	Recordkeeping	Ongoing	
F.4, F.9, F.13, F.15, F.16	Baghouse Control Requirement	Operate and Maintain	Inspection	Ongoing	

Conditions

- F.1. Plum Creek shall not cause or authorize emissions to be discharged into the outdoor atmosphere from the combined ADS Baghouses exhaust stack any emissions that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304(2)).
- F.2. Plum Creek shall comply with the emission limitations contained in Table F.2 (ARM 17.8.749 and ARM 17.8.752).

Table F.2			
Emissions Unit	Total Particulate Emissions Limit	PM ₁₀ Emissions Limit	Rule Citation
M13- (Combined MDF Materials Handling Baghouses Exhaust stack)	1.93 lb/hr	1.93 lb/hr	ARM 17.8.752

- F.3. Hours of operation of the Line 1 MDF plant shall be limited to 8,500 hours during any rolling 12-month time period (ARM 17.8.749).
- F.4. Plum Creek shall operate and maintain the Line 1 MDF materials handling baghouses (ARM 17.8.752).

Compliance Demonstration

- F.5. Plum Creek shall demonstrate compliance with the opacity limitations of Section III.F.1 through visual surveys and EPA Method 9 Tests as follows:

Plum Creek shall conduct either a semiannual Method 9 source test or a weekly visual survey of visible emissions on the M13 MDF Materials Handling Baghouses. Under the visual survey option, once per calendar week, during daylight hours, Plum Creek shall visually survey for any visible emissions. If visible emissions are observed during the visual survey, Plum Creek shall conduct a Method 9 source test. The Method 9 source test shall begin within one hour of any observation of visible emissions. If visible emissions meet or exceed 15% opacity based on the Method 9 source test, Plum Creek shall immediately take corrective action to contain or minimize the source of emissions. If corrective actions are taken, then Plum Creek shall immediately conduct a subsequent visual survey (and subsequent Method 9 source test if visible emissions remain) to monitor compliance. The person conducting the visual survey shall record the results of the survey (including the results of any Method 9 source test performed) in a log, including any corrective action taken. Conducting a visual survey does not relieve Plum Creek of the liability for a violation determined using Method 9 (ARM 17.8.101(27)).

If the visual surveys are not performed once per calendar week as specified above during the reporting period, then Plum Creek shall perform the Method 9 source tests on the M13 MDF Materials Handling Baghouses for that reporting period.

Method 9 source tests shall be performed in accordance with the Montana Source Test Protocol and Procedures Manual, except that prior notification of the test is not required. Each observation period must be a minimum of 6 minutes unless any one reading is 20% or greater, then the observation period must be a minimum of 20 minutes or until a violation of the standard has been documented, whichever is a shorter period of time (ARM 17.8.1213).

- F.6. If any point source within the total Line 1 MDF process (M13) exceeds an applicable opacity limit, the Department may require all point sources in that process to be tested to determine compliance with mass emission limits. These tests shall conform to EPA test specifications under 40 CFR 60, Appendix A, including back half. PM₁₀ tests shall conform to 40 CFR 51, Appendix M, including back half and the Montana Source Test Protocol and Procedures Manual. All sources where tests are required must be equipped with stacks and sampling ports, with safe access for the sampling personnel. The Department may allow a total particulate test only in the back half is included and it is acknowledged this test can be used as a surrogate for PM₁₀ (ARM 17.8.105, ARM 17.8.106, ARM 17.8.1213).
- F.7. Plum Creek shall test the combined Line 1 ADS baghouse exhaust stack on an every 3-year basis, or according to another testing/monitoring schedule as approved by the Department. The test methods shall conform to 40 CFR Part 51, Appendix M, including back-half, for PM₁₀; 40 CFR Part 60, Appendix A, including back half, for total particulate; and the Montana Source Test Protocol and Procedures Manual. The Department may allow a total particulate test only if the back half is included and it is acknowledged this test can be used as a surrogate for PM₁₀ (ARM 17.8.105 and ARM 17.8.106).
- F.8. Demonstrating compliance with the operational limit in Section III.F.3 shall be accomplished through recordkeeping. Plum Creek shall document, by month, the total hours of operation for the affected unit(s). By the 25th day of each month, Plum Creek shall total the hours of operation during the previous month. The monthly information will be used to verify compliance with the rolling 12-month limitation in Section III.F.3 (ARM 17.8.1213).
- F.9. Plum Creek shall inspect the M13a and M13b baghouses at least quarterly for wear, plugging, abrasion, and general integrity of the control devices (ARM 17.8.1213).

Recordkeeping

- F.10. If weekly visual surveys are performed, Plum Creek shall maintain, on-site, a log including all visual observations demonstrating compliance with the visual survey requirement. The log shall include the required information, the date, the time, and the initials of the documenting personnel (ARM 17.8.1212).
- F.11. All compliance source test recordkeeping shall be performed in accordance with the test method used and the Montana Source Test Protocol and Procedures Manual, and shall be maintained on-site. The reports must be submitted in accordance with the Montana Source Test Protocol and Procedures Manual except that any Method 9 source test reports shall be maintained on-site and shall be submitted to the Department only upon request (ARM 17.8.106 and ARM 17.8.1212).
- F.12. Plum Creek shall maintain on-site a monthly baghouse operations log documenting the hours of operation for the affected units, as described in Section III.F.7. The log must be maintained on-site and must be submitted to the Department upon request (ARM 17.8.1212).
- F.13. Plum Creek shall record inspections and maintenance performed as required by Section III.F.9. Each log entry must include the date, results of the inspection, and any maintenance activity or preventive action conducted. The log shall be maintained on-site for a minimum of 5 years from the date the record is made and shall be submitted to the Department upon request (ARM 17.8.1212).

Reporting

- F.14. All source test report(s) shall be submitted to the Department in accordance with the Montana Source Test Protocol and Procedures Manual except that any Method 9 source test reports shall be maintained on-site and shall be submitted to the Department only upon request (ARM 17.8.1212).
- F.15. The annual compliance certification required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.9.1212).
- F.16. The semiannual compliance monitoring reports shall provide (ARM 17.8.1212):
 - a. A summary of the results contained in the weekly visual observations log;
 - b. A summary of results of any source testing that was performed during the reporting period;
 - c. A summary of the affected unit(s) operating hours as required in Section III.F.7; and
 - d. A brief summary of the inspections and maintenance log.

G. Miscellaneous MDF Material Handling Baghouse and Cyclones

M12 - MDF Reject Fiber Cyclone and Baghouse

Permit Conditions	Pollutant/Parameter	Permit Limit	Compliance Demonstration		Reporting Requirement
			Method	Frequency	
G.1, G.4, G.8, G.9, G.12, G.13, G.14	Opacity	20%	Visual Surveys	Weekly	Semiannual
			Method 9	Semiannually	
G.2, G.5, G.6, G.9, G.10, G.12, G.13, G.14	Particulate Matter	$E=55 \cdot P^{0.11} - 40$	Control Equipment Operation and Maintenance	Ongoing	
			Method 5	As Required by the Department and Section III.A.1	
G.3, G.7, G.11, G.13, G.14	Hours of Operation	8,500 hr/yr	Recordkeeping	Ongoing	

Conditions

- G.1. Plum Creek shall not cause or authorize emissions to be discharged into the outdoor atmosphere from the MDF Reject Fiber Cyclone and Baghouse any emissions that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304(2)).
- G.2. The maximum hourly allowable emissions of particulate matter shall not exceed the value calculated by $E = 55.0 \cdot P^{0.11} - 40$, where E is the rate of emissions in pounds per hour and P is the process weight rate in tons per hour (ARM 17.8.310).
- G.3. Hours of operation of the Line 1 MDF plant shall be limited to 8,500 hours during any rolling 12-month time period (ARM 17.8.749).

Compliance Demonstration

- G.4. Plum Creek shall demonstrate compliance with the opacity limitations of Section III.G.1 through visual surveys and EPA Method 9 Tests as follows:

Plum Creek shall conduct either a semiannual Method 9 source test or a weekly visual survey of visible emissions on the M12 - MDF Reject Fiber Cyclone and Baghouse. Under the visual survey option, once per calendar week, during daylight hours, Plum Creek shall visually survey for any visible emissions. If visible emissions are observed during the visual survey, Plum Creek shall conduct a Method 9 source test. The Method 9 source test shall begin within one hour of any observation of visible emissions. If visible emissions meet or exceed 15% opacity based on the Method 9 source test, Plum Creek shall immediately take corrective action to contain or minimize the source of emissions. If corrective actions are taken, then Plum Creek shall immediately conduct a subsequent visual survey (and subsequent Method 9 source test if visible emissions remain) to monitor compliance. The person conducting the visual survey shall record the results of the survey (including the results of any Method 9 source test performed) in a log, including any corrective action taken. Conducting a visual survey does not relieve Plum Creek of the liability for a violation determined using Method 9 (ARM 17.8.101(27)).

If the visual surveys are not performed once per calendar week as specified above during the reporting period, then Plum Creek shall perform the Method 9 source tests on the M12 - MDF Reject Fiber Cyclone and Baghouse for that reporting period.

Method 9 source tests shall be performed in accordance with the Montana Source Test Protocol and Procedures Manual, except that prior notification of the test is not required. Each observation period must be a minimum of 6 minutes unless any one reading is 20% or greater, then the observation period must be a minimum of 20 minutes or until a violation of the standard has been documented, whichever is a shorter period of time (ARM 17.8.1213).

If any point source exceeds an applicable opacity limit, the Department may require all point sources to be tested to determine compliance with mass emission limits. These tests shall conform to EPA test specifications under 40 CFR 60, Appendix A, including back half. PM₁₀ tests shall conform to 40 CFR 51, Appendix M, including back-half and the Montana Source Test Protocol and Procedures Manual. All sources where tests are required must be equipped with stacks and sampling port, with safe access for the sampling personnel. The Department may allow a total particulate test if the back half is included and it is acknowledged this test can be used as a surrogate for PM₁₀ (ARM 17.8.105 and ARM 17.8.106).

- G.5. Plum Creek shall inspect the MDF Material Handling baghouse and cyclones at least quarterly for wear, plugging, abrasion, and general integrity of the control device (ARM 17.8.1213).
- G.6. As required by the Department and Section III.A.1, Plum Creek shall perform a Method 5 source test, or another Department-approved source test method, to monitor compliance with the particulate emissions limit in Section III.G.2. The test methods shall be conducted in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106 and ARM 17.8.1213).
- G.7. Demonstrating compliance with the operational limit in Section III.G.3 shall be accomplished through recordkeeping. Plum Creek shall document, by month, the total hours of operation for the affected unit(s). By the 25th day of each month, Plum Creek shall total the hours of operation during the previous month. The monthly information will be used to verify compliance with the rolling 12-month limitation in Section III.G.3 (ARM 17.8.1213).

Recordkeeping

- G.8. If weekly visual surveys are performed, Plum Creek shall maintain, on-site, a log including all visual observations monitoring compliance with the visual survey requirement. The log shall include the required information, the date, the time, and the initials of the documenting personnel (ARM 17.8.1212).
- G.9. All compliance source test recordkeeping shall be performed in accordance with the test method used and the Montana Source Test Protocol and Procedures Manual, and shall be maintained on-site. The reports must be submitted in accordance with the Montana Source Test Protocol and Procedures Manual except that any Method 9 source test reports shall be maintained on-site and shall be submitted to the Department only upon request (ARM 17.8.106 and ARM 17.8.1212).
- G.10. Plum Creek shall record inspections and maintenance performed as required by Section III.G.5. Each log entry must include the date, results of the inspection, and any maintenance activity or preventive action conducted. The log shall be maintained on-site for a minimum of 5 years from the date the record is made and shall be submitted to the Department upon request (ARM 17.8.1212).

G.11. Plum Creek shall maintain on-site a monthly baghouse operations log documenting the hours of operation for the affected units, as described in Section III.G.7. The log shall be maintained on-site and shall be submitted to the Department upon request (ARM 17.8.1212).

Reporting

G.12. All source test report(s) shall be submitted to the Department in accordance with the Montana Source Test Protocol and Procedures Manual except that any Method 9 source test reports shall be maintained on-site and shall be submitted to the Department only upon request (ARM 17.8.1212).

G.13. The annual compliance certification required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).

G.14. The semiannual compliance monitoring reports shall provide (ARM 17.8.1212):

- a. If weekly visual surveys are performed during the reporting period, a summary of the results contained in the weekly visual observations log;
- b. A summary of results of any source testing that was performed during the reporting period;
- c. A brief summary of the inspections and maintenance log; and
- d. A summary of the affected unit(s) operating hours as required in Section III.G.7.

H. Line 1 - MDF Fiber Dryers and Press Vents (6)

M15 - MDF Face and Core Fiber Dryers and Line 1 Press Vents (Combined through Line 1 Biofilter)

Permit Condition(s)	Pollutant/Parameter	Permit Limit	Compliance Demonstration		Reporting Requirement
			Method	Frequency	
H.1, H.10, H.16, H.17, H.21, H.22, H.23	Opacity	20%	Visual Surveys	Weekly	Semiannual
			Method 9	Semiannually	
H.2, H.14, H.19, H.22, H.23	ESPs	Operations and Maintenance	Inspection/CAM Plan	Ongoing	
H.3, H.15, H.20, H.22, H.23	Biofilter – Fiber Dryers	Operations and Maintenance	Recordkeeping	Ongoing	
H.4, H.15, H.20, H.22, H.23	Biofilter – Press Vents	Operations and Maintenance	Recordkeeping	Ongoing	
H.5, H.11, H.17, H.21, H.22, H.23	PM	30.88 lb/hr	Method 5	Every three years	
H.6, H.11, H.17, H.21, H.22, H.23	PM ₁₀	25.99 lb/hr	Method 201A and Method 202	Every three years	
H.7, H.12, H.17, H.21, H.22, H.23	VOC	139.14 lb/hr	Method 25A	Every three years	
H.9, H.13, H.20, H.22, H.23	Hours of Operation	8,500 hr/yr	Recordkeeping	Ongoing	

Conditions

- H.1. Plum Creek shall not cause or authorize emissions to be discharged into the outdoor atmosphere from the Line 1 Biofilter Stacks that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304(2)).
- H.2. Plum Creek shall operate and maintain the four ESPs on the MDF face and core fiber dryers (ARM 17.8.749).
- H.3. Emissions from the four ESPs controlling emissions from the Line1 MDF fiber dryers shall be routed through the Line 1 biofilter and exhausted to the atmosphere through the Line 1 biofilter stacks (ARM 17.8.749)
- H.4. Emissions from the Line 1 press vents shall be routed through a knock-out box and the Line 1 biofilter and vented through the Line 1 biofilter stacks (ARM 17.8.749)
- H.5. Line 1 MDF fiber dryer and Line 1 press vent total particulate emissions, as emitted from the Line 1 biofilter stacks, shall be limited to 30.88 lb/hr (ARM 17.8.749)
- H.6. Line 1 MDF fiber dryer and Line 1 press vent emissions of PM₁₀, as emitted from the Line 1 biofilter stacks, shall be limited to 25.99 lb/hr (ARM 17.8.749).
- H.7. Line 1 MDF fiber dryer and Line 1 press vent emissions of VOCs, as emitted from the Line 1 biofilter stacks, shall be limited to 139.14 lb/hr (ARM 17.8.749).
- H.8. Visible emissions from the Line 1 MDF fiber dryers and the Line 1 press vents, as emitted from the Line 1 biofilter stacks, shall be limited to 20% opacity averaged over 6 consecutive minutes (ARM 17.8.304).
- H.9. Hours of operation of the MDF plant fiber dryers and press vents shall be limited to 8,500 hours during any rolling 12-month time period (ARM 17.8.749).

Compliance Demonstration

- H.10. Plum Creek shall demonstrate compliance with the opacity limitations of Section III.H.1 through visual surveys and EPA Method 9 Tests as follows:

Plum Creek shall conduct either a semiannual Method 9 source test or a weekly visual survey of visible emissions on the Line 1 Biofilter Stacks. Under the visual survey option, once per calendar week, during daylight hours, Plum Creek shall visually survey for any visible emissions. If visible emissions are observed during the visual survey, Plum Creek shall conduct a Method 9 source test. The Method 9 source test shall begin within one hour of any observation of visible emissions. If visible emissions meet or exceed 15% opacity based on the Method 9 source test, Plum Creek shall immediately take corrective action to contain or minimize the source of emissions. If corrective actions are taken, then Plum Creek shall immediately conduct a subsequent visual survey (and subsequent Method 9 source test if visible emissions remain) to monitor compliance. The person conducting the visual survey shall record the results of the survey (including the results of any Method 9 source test performed) in a log, including any corrective action taken. Conducting a visual survey does not relieve Plum Creek of the liability for a violation determined using Method 9 (ARM 17.8.101(27)).

If the visual surveys are not performed once per calendar week as specified above during the reporting period, then Plum Creek shall perform the Method 9 source tests on the Line 1 Biofilter Stacks for that reporting period.

Method 9 source tests shall be performed in accordance with the Montana Source Test Protocol and Procedures Manual, except that prior notification of the test is not required. Each observation period must be a minimum of 6 minutes unless any one reading is 20% or greater, then the observation period must be a minimum of 20 minutes or until a violation of the standard has been documented, whichever is a shorter period of time (ARM 17.8.1213).

- H.11. Every three years, source tests shall be performed on the Line 1 Biofilter Stacks to demonstrate compliance with the PM and PM₁₀ emission limitations contained in Sections III.H.5 and III.H.6. The source tests shall occur simultaneously on each operating Line 1 Stack and the results summed. The test methods shall be performed in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.105 and ARM 17.8.106) and conform to 40 CFR Part 51, Appendix M including back-half, for PM₁₀ and 40 CFR Part 60, Appendix A, including back-half, for total particulate. The Department may allow a total particulate test only if the back-half is included and it is acknowledged that this test can be used as a surrogate for PM₁₀ (ARM 17.8.1213, ARM 17.8.105, ARM 17.8.106).
- H.12. Every three years, a source test shall be performed on the Line 1 Biofilter Stacks to demonstrate compliance with the VOC emission limitations contained in Section III.H.7. The source tests shall occur simultaneously on each operating Line 1 Stack and the results summed. The test methods shall be performed in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106) and conform to 40 CFR Part 60, Appendix A (ARM 17.8.1213).
- H.13. Demonstrating compliance with the operational limit in Section III.H.9 shall be accomplished through recordkeeping. Plum Creek shall document, by month, the total hours of operation for the affected unit(s). By the 25th day of each month, Plum Creek shall total the hours of operation during the previous month. The monthly information will be used to verify compliance with the rolling 12-month limitation in Section III.H.8 (ARM 17.8.1213).
- H.14. Plum Creek shall perform at least quarterly inspections on the four ESPs and the MDF face and core fiber dryers. Further, Plum Creek shall monitor ESP performance in accordance with Appendix E, Compliance Assurance Monitoring (ARM 17.8.1213 and ARM 17.8.1503).
- H.15. Plum Creek shall log any time that emissions from the four ESPs controlling emissions from the Line 1 MDF fiber dryers are not routed through the Line 1 biofilter and exhausted to the atmosphere through the Line 1 biofilter stacks, or any time that emissions from the Line 1 press vents are not routed through a knock-out box and the Line 1 biofilter and vented through the Line 1 biofilter stacks. The log shall include the date and duration of time that emissions were not routed as required (ARM 17.8.1212).

Recordkeeping

- H.16. If weekly visual surveys are performed, Plum Creek shall maintain, on-site, a log including all visual observations monitoring compliance with the visual survey requirement. The log shall include the required information, the date, the time, and the initials of the documenting personnel (ARM 17.8.1212).

- H.17. All compliance source test recordkeeping shall be performed in accordance with the test method used and the Montana Source Test Protocol and Procedures Manual, and shall be maintained on-site. The reports must be submitted in accordance with the Montana Source Test Protocol and Procedures Manual except that any Method 9 source test reports shall be maintained on-site and shall be submitted to the Department only upon request (ARM 17.8.106 and ARM 17.8.1212).
- H.18. Plum Creek shall maintain on-site a monthly Line 1 MDF Fiber Dryers operations log documenting the hours of operation for the affected units, as described in Section III.H.13. The log must be maintained on-site and must be submitted to the Department upon request (ARM 17.8.1212).
- H.19. Plum Creek shall record inspections and maintenance performed as required by Section III.H.14. Each log entry must include the date, results of the inspection, and any maintenance activity or preventive action conducted. The log shall be maintained on-site for a minimum of 5 years from the date the record is made and shall be submitted to the Department upon request (ARM 17.8.1212).
- H.20. The log required by Section III.H.13 and Section III.H.15 shall be maintained on-site for a minimum of 5 years from the date the record is made and shall be submitted to the Department upon request (ARM 17.8.1212).

Reporting

- H.21. All source test report(s) shall be submitted to the Department in accordance with the Montana Source Test Protocol and Procedures Manual except that any Method 9 source test reports shall be maintained on-site and shall be submitted to the Department only upon request (ARM 17.8.1212).
- H.22. The annual compliance certification required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).
- H.23. The semiannual compliance monitoring reports shall provide (ARM 17.8.1212):
- a. If weekly visual surveys are performed during the reporting period, a summary of the results contained in the weekly visual observations log;
 - b. A summary of results of any source testing that was performed during the reporting period;
 - c. A summary of the affected unit(s) operating hours as required in Section III.H.13;
 - d. A brief summary of the inspections and maintenance log; and
 - e. A summary of any records kept as required by Section III.H.15.

I. MDF Forming and Finishing

M16 – MDF Forming and Finishing

Permit Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration		Reporting Requirement
			Method	Frequency	
I.1, I.6, I.10, I.11, I.13, I.14, I.15	Opacity	20%	Visual Surveys	Weekly	Semiannually
			Method 9	Semiannually	
I.2, I.7, I.11, I.13, I.15	Particulate Matter	10.32 lb/hr	Method 5 and 201A or as approved	As Required by the Department and Section III.A.1	
I.3, I.7, I.11, I.13, I.15	PM ₁₀	3.80 lb/hr			
I.4, I.8, I.11, I.13, I.15	VOC	5.36 lb/hr	Method 25A test or other Department approved test method	As Required by the Department and Section III.A.1	
I.5, I.9, I.12, I.14, I.15	Hours of Operation	8500 hr/yr	Recordkeeping	Ongoing	

Conditions

- I.1. Plum Creek shall not cause or authorize emissions to be discharged into the outdoor atmosphere from any MDF forming and finishing that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304(2)).
- I.2. Total emissions combined from the ten board cooler fan vents shall be limited to 10.32 lb/hr of total particulate (ARM 17.8.752).
- I.3. Total emissions combined from the ten board cooler fan vents shall be limited to 3.80 lb/hr of PM₁₀ (ARM 17.8.752).
- I.4. Total emissions combined from the ten board cooler fan vents shall be limited to 5.36 lb/hr of VOC (ARM 17.8.752).
- I.5. Hours of operation of the MDF plant shall be limited to 8500 hours during any rolling 12-month time period (ARM 17.8.749).

Compliance Demonstration

- I.6. Plum Creek shall demonstrate compliance with the opacity limitations of Section III.I.1 through visual surveys and EPA Method 9 Tests as follows:

Plum Creek shall conduct either a semiannual Method 9 source test or a weekly visual survey of visible emissions on the MDF Forming and Finishing and Board Cooler Fan Vents. Under the visual survey option, once per calendar week, during daylight hours, Plum Creek shall visually survey for any visible emissions. If visible emissions are observed during the visual survey, Plum Creek shall conduct a Method 9 source test. The Method 9 source test shall begin within one hour of any observation of visible emissions. If visible emissions meet or exceed 15% opacity based on the Method 9 source test, Plum Creek shall immediately take corrective action to contain or minimize the source of emissions. If corrective actions are taken, then Plum Creek shall immediately conduct a subsequent visual survey (and subsequent Method 9 source test if visible emissions remain) to monitor compliance. The person conducting the visual survey shall

record the results of the survey (including the results of any Method 9 source test performed) in a log, including any corrective action taken. Conducting a visual survey does not relieve Plum Creek of the liability for a violation determined using Method 9 (ARM 17.8.101(27)).

If the visual surveys are not performed once per calendar week as specified above during the reporting period, then Plum Creek shall perform the Method 9 source tests on the MDF Forming and Finishing and Board Cooler Fan Vents for that reporting period.

Method 9 source tests shall be performed in accordance with the Montana Source Test Protocol and Procedures Manual, except that prior notification of the test is not required. Each observation period must be a minimum of 6 minutes unless any one reading is 20% or greater, then the observation period must be a minimum of 20 minutes or until a violation of the standard has been documented, whichever is a shorter period of time (ARM 17.8.1213).

If any point source exceeds an applicable opacity limit, the Department may require all point sources to be tested to determine compliance with mass emission limits. These tests shall conform to EPA test specifications under 40 CFR 60, Appendix A, including back half. PM₁₀ tests shall conform to 40 CFR 51, Appendix M, including back-half and the Montana Source Test Protocol and Procedures Manual. All sources where tests are required must be equipped with stacks and sampling port, with safe access for the sampling personnel. The Department may allow a total particulate test if the back half is included and it is acknowledged this test can be used as a surrogate for PM₁₀ (ARM 17.8.105 and ARM 17.8.106).

- I.7. As required by the Department and Section III.A.1, Plum Creek shall perform a Method 5 and a Method 201A source test, or another Department-approved source test method, to monitor compliance with the particulate emissions limit in Section III.I.2 and I.3, respectively. The test methods shall be conducted in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106 and ARM 17.8.1213).
- I.8. As required by the Department and Section III.A.1, Plum Creek shall perform a Method 25A test or other approved test as required by the Department and Section III.A.1 to monitor compliance with the VOC emissions limit in Section III.I.4. The test methods shall be conducted in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106 and ARM 17.8.1213).
- I.9. Monitoring compliance with the operational limit in Section III.I.5 shall be accomplished through recordkeeping. Plum Creek shall document, by month, the total hours of operation for the affected unit(s). By the 25th day of each month, Plum Creek shall total the hours of operation during the previous month. The monthly information will be used to verify compliance with the rolling 12-month limitation in Section III.I.5 (ARM 17.8.1213).

Recordkeeping

- I.10. If weekly visual surveys are performed, Plum Creek shall maintain, on-site, a log including all visual observations monitoring compliance with the visual survey requirement. The log shall include the required information, the date, the time, and the initials of the documenting personnel (ARM 17.8.1212).
- I.11. All compliance source test recordkeeping shall be performed in accordance with the test method used and the Montana Source Test Protocol and Procedures Manual, and shall be maintained on site. The reports must be submitted in accordance with the Montana Source Test Protocol and Procedures Manual except that any Method 9 source test reports shall be maintained on-site and shall be submitted to the Department only upon request (ARM 17.8.106 and ARM 17.8.1212).

- I.12. Plum Creek shall maintain on site a monthly operations log documenting the hours of operation for the affected units, as described in Section III.I.9. The log must be maintained on-site and must be submitted to the Department upon request (ARM 17.8.1212).

Reporting

- I.13. All source test report(s) shall be submitted to the Department in accordance with the Montana Source Test Protocol and Procedures Manual except that any Method 9 source test reports shall be maintained on-site and shall be submitted to the Department only upon request (ARM 17.8.1212).
- I.14. The annual compliance certification required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).
- I.15. The semiannual compliance monitoring reports shall provide (ARM 17.8.1212):
- a. If weekly visual surveys are performed during the reporting period, a summary of the results contained in the weekly visual observations log;
 - b. A summary of results of any source testing that was performed during the reporting period;
 - c. A summary of the affected unit(s) operating hours as required in Section III.I.9.

J. Line 2 – MDF Fiber Dryers

M18 - MDF Fiber Dryers

Permit Condition(s)	Pollutant/ Parameter	Permit Limit	Compliance Demonstration		Reporting Requirement
			Method	Frequency	
J.1, J.7, J.12, J.13, J.15, J.16, J.17	Opacity	20%	Visual Surveys	Weekly	Semiannual
			Method 9	Semiannually	
J.2, J.10, J.14, J.16, J.17	Scrubbers and Biofilters	Operations and Maintenance	Inspections	Ongoing	
J.3, J.11, J.14, J.16, J.17	Flue Gas Recirculation/Low NO _x Burners	Operations and Maintenance	Inspections	Ongoing	
J.4, J.8, J.13, J.15, J.16, J.17	PM	23.1 lb/hr	40 CFR Part 60, Appendix A, including back half, for total particulate	Every 3 years	
J.5, J.8, J.13, J.15, J.16, J.17	PM ₁₀	23.1 lb/hr	40 CFR Part 51, Appendix M, including back half, for PM ₁₀	Every 3 years	
J.6, J.9, J.13, J.15, J.16, J.17	VOC	78.1 lb/hr	Method 25A	Every 3 years	

Conditions

- J.1. Visible emissions from the Line 2 MDF fiber dryers combined stack shall be limited to 20% opacity averaged over 6 consecutive minutes (ARM 17.8.304).
- J.2. Plum Creek shall install, operate, and maintain two venturi scrubbers with three biofilter stacks as control for the Line 2 MDF fiber dryers (ARM 17.8.749).
- J.3. Plum Creek shall install, operate, and maintain a flue gas recirculation/low NO_x burner (FGR/LNB) on the heat source for the Line 2 MDF fiber dryer (ARM 17.8.752).
- J.4. Total particulate emissions from the Line 2 MDF fiber dryer venturi scrubbers and biofilter stacks shall be limited to 23.1 lb/hr (ARM 17.8.752).
- J.5. PM₁₀ emissions from the Line 2 MDF fiber dryer venturi scrubbers and biofilter stacks shall be limited to 23.1 lb/hr (ARM 17.8.752).
- J.6. VOC emissions from the Line 2 MDF fiber dryer combined stack shall be limited to 78.1 lb/hr (ARM 17.8.752).

Compliance Demonstration

- J.7. Plum Creek shall demonstrate compliance with the opacity limitations of Section III.J.1 through visual surveys and EPA Method 9 Tests as follows:

Plum Creek shall conduct either a semiannual Method 9 source test or a weekly visual survey of visible emissions on the Line 2 MDF Fiber Dryers. Under the visual survey option, once per calendar week, during daylight hours, Plum Creek shall visually survey for any visible emissions.

If visible emissions are observed during the visual survey, Plum Creek shall conduct a Method 9 source test. The Method 9 source test shall begin within one hour of any observation of visible emissions. If visible emissions meet or exceed 15% opacity based on the Method 9 source test, Plum Creek shall immediately take corrective action to contain or minimize the source of emissions. If corrective actions are taken, then Plum Creek shall immediately conduct a subsequent visual survey (and subsequent Method 9 source test if visible emissions remain) to monitor compliance. The person conducting the visual survey shall record the results of the survey (including the results of any Method 9 source test performed) in a log, including any corrective action taken. Conducting a visual survey does not relieve Plum Creek of the liability for a violation determined using Method 9 (ARM 17.8.101(27)).

If the visual surveys are not performed once per calendar week as specified above during the reporting period, then Plum Creek shall perform the Method 9 source tests on the Line 2 MDF Fiber Dryers for that reporting period.

Method 9 source tests shall be performed in accordance with the Montana Source Test Protocol and Procedures Manual, except that prior notification of the test is not required. Each observation period must be a minimum of 6 minutes unless any one reading is 20% or greater, then the observation period must be a minimum of 20 minutes or until a violation of the standard has been documented, whichever is a shorter period of time (ARM 17.8.1213).

- J.8. Plum Creek shall demonstrate compliance with the emission limitations contained in Sections III.J.4 and III.J.5 with source testing on an every 3-year basis or according to another testing/monitoring schedule as may be approved by the Department in writing. The test methods shall conform to 40 CFR Part 51, Appendix M, including back half, for PM₁₀; 40 CFR Part 60, Appendix A, including back half, for total particulate; and the Montana Source Test Protocol and Procedures Manual. The Department may allow a total particulate test if the back half is included and it is acknowledged this test can be used as a surrogate for PM₁₀ (ARM 17.8.105 and ARM 17.8.106).
- J.9. Every 3 years a Method 25A, or another source test method as approved by the Department, shall be performed on the Line 2 MDF fiber dryer to monitor compliance with the emission limitations contained in Sections III.J.6. The test methods must be performed in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106) and conform to 40 CFR Part 60, Appendix A (ARM 17.8.1213).
- J.10. Plum Creek shall perform at least quarterly inspections on the two Venturi scrubbers and the biofilter system. The inspections should be conducted in accordance with the manufacturer's recommendations. Further, Plum Creek shall monitor Venturi scrubber performance in accordance with Appendix E, Compliance Assurance Monitoring (ARM 17.8.1213).
- J.11. Plum Creek shall perform at least quarterly inspections on the FGR/LNB. The inspections should be conducted in accordance with the manufacturer's recommendations (ARM 17.8.1213).

Recordkeeping

- J.12. If weekly visual surveys are performed, Plum Creek shall maintain, on-site, a log including all visual observations monitoring compliance with the visual survey requirement. The log shall include the required information, the date, the time, and the initials of the documenting personnel (ARM 17.8.1212).

- J.13. All compliance source test recordkeeping shall be performed in accordance with the test method used and the Montana Source Test Protocol and Procedures Manual, and shall be maintained on site. The reports must be submitted in accordance with the Montana Source Test Protocol and Procedures Manual except that any Method 9 source test reports shall be maintained on-site and shall be submitted to the Department only upon request (ARM 17.8.106 and ARM 17.8.1212).
- J.14. Plum Creek shall record inspections and maintenance performed as required by Sections III.J.10 and III.J.11, by emitting unit. Each log entry must include the date, results of the inspection, and any maintenance activity or preventive action conducted. The log shall be maintained on-site for a minimum of 5 years from the date the record is made and shall be submitted to the Department upon request (ARM 17.8.1212).

Reporting

- J.15. All source test report(s) shall be submitted to the Department in accordance with the Montana Source Test Protocol and Procedures Manual except that any Method 9 source test reports shall be maintained on-site and shall be submitted to the Department only upon request (ARM 17.8.1212).
- J.16. The annual compliance certification required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).
- J.17. The semiannual compliance monitoring reports shall provide (ARM 17.8.1212):
- If weekly visual surveys are performed during the reporting period, a summary of the results contained in the weekly visual observations log;
 - A summary of results of any source testing that was performed during the reporting period; and
 - A brief summary of the inspections and maintenance log.

K. Line 2 MDF Press

M19 - Line 2 MDF Press

Permit Conditions	Pollutant/Parameter	Permit Limit	Compliance Demonstration		Reporting Requirement
			Method	Frequency	
K.1, K.2, K.3, K.4, K.5	Venturi Scrubbers and Biofilter system	Operate and Maintain	Inspection	Ongoing	Semiannual

Conditions

- K.1. Emissions from the press vents shall be routed to the Line 2 venturi scrubber and biofilters (ARM 17.8.752 and ARM 17.8.749).

Compliance Demonstration

- K.2. Plum Creek shall record in a log any time that the emissions from the press vents are not routed to the Line 2 venturi scrubber and biofilters. The log shall include the date and duration of time that emissions were not routed as required (ARM 17.8.1213).

Recordkeeping

- K.3. The log required by Section III.K.2 shall be maintained on-site for a minimum of 5 years from the date the record is made and shall be submitted to the Department upon request (ARM 17.8.1212).

Reporting

- K.4. The annual compliance certification required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).
- K.5. The semiannual compliance monitoring reports shall provide a summary of any records kept as required by Section III.K.2 (ARM 17.8.1212).

L. M20 and M21 – Line 2 MDF Sander Baghouses; M22 – Line 2 MDF Reject Baghouse; M23 – Line 2 MDF Forming Baghouse; M24 – Line 2 MDF Coen Fuel Bin Baghouse

M20 and M21 MDF Sander Baghouses and M22, M23, and M24 MDF Material Handling Baghouses

Permit Condition(s)	Pollutant Parameter	Permit Limit	Compliance Demonstration		Reporting Requirement
			Method	Frequency	
L.1, L.4, L.5 L.8, L.9, L.11, L.12, L.13	Opacity	20%	Visual Surveys	Weekly	Semiannual
			Method 9	Semiannually	
L.2, L.5, L.6, L.9, L.11, L.12, L.13	Particulate Matter /PM ₁₀	See Table M.2.	Method 5/ Method 201A or as approved by the Department	Every three years / as required by the Department (M24)	
L.3, L.7, L.10, L.12, L.13	Baghouse Control Requirement	Operation and Maintenance	Inspection	Ongoing	

Conditions

- L.1. Plum Creek shall not cause or authorize emissions to be discharged into the outdoor atmosphere from any emissions point in the total MDF process, excluding drying, that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304(2)).
- L.2. Plum Creek shall comply with the emission limitations contained in Table L.2 (ARM 17.8.749 and ARM 17.8.752).

Table L.2			
Emissions Unit	Total Particulate Emissions Limit	PM ₁₀ Emissions Limit	Rule Citation
M20 – Line 2 MDF North Sander Baghouse*	2.14 lb/hr	2.14 lb/hr	ARM 17.8.752
M21 – Line 2 MDF South Sander Baghouse*	2.14 lb/hr	2.14 lb/hr	ARM 17.8.752
M22 – Line 2 MDF Reject Baghouse	3.43 lb/hr	3.43 lb/hr	ARM 17.8.752
M23 – Line 2 MDF Forming Baghouse	2.14 lb/hr	2.14 lb/hr	ARM 17.8.752
M24 – Line 2 MDF Coen Fuel Bin Baghouse	0.43 lb/hr	0.43 lb/hr	ARM 17.8.752

NOTE:

* The M20 – Line 2 MDF North Sander Baghouse and M21 – Line 2 MDF South Sander Baghouse vent to the same stack; therefore, the emission limits can be combined to 4.28 lb/hr from the single stack for emissions testing purposes.

L.3. Plum Creek shall operate and shall maintain the M20, M21, M22, M23, and M24 MDF Material Handling baghouses (ARM 17.8.752).

Compliance Demonstration

L.4. Plum Creek shall demonstrate compliance with the opacity limitations of Section III.L.1 through visual surveys and EPA Method 9 Tests as follows:

Plum Creek shall conduct either a semiannual Method 9 source test or a weekly visual survey of visible emissions on the M20, M21, M22, M23 and M24 – Line 2 MDF Material Handling Baghouses. Under the visual survey option, once per calendar week, during daylight hours, Plum Creek shall visually survey for any visible emissions. If visible emissions are observed during the visual survey, Plum Creek shall conduct a Method 9 source test. The Method 9 source test shall begin within one hour of any observation of visible emissions. If visible emissions meet or exceed 15% opacity based on the Method 9 source test, Plum Creek shall immediately take corrective action to contain or minimize the source of emissions. If corrective actions are taken, then Plum Creek shall immediately conduct a subsequent visual survey (and subsequent Method 9 source test if visible emissions remain) to monitor compliance. The person conducting the visual survey shall record the results of the survey (including the results of any Method 9 source test performed) in a log, including any corrective action taken. Conducting a visual survey does not relieve Plum Creek of the liability for a violation determined using Method 9 (ARM 17.8.101(27)).

If the visual surveys are not performed once per calendar week as specified above during the reporting period, then Plum Creek shall perform the Method 9 source tests on the M20, M21, M22, M23 and M24 - MDF Material Handling Baghouses for that reporting period.

Method 9 source tests shall be performed in accordance with the Montana Source Test Protocol and Procedures Manual, except that prior notification of the test is not required. Each observation period must be a minimum of 6 minutes unless any one reading is 20% or greater, then the observation period must be a minimum of 20 minutes or until a violation of the standard has been documented, whichever is a shorter period of time (ARM 17.8.1213).

- L.5. If any point source within the total Line 2 MDF process, excluding drying, exceeds an applicable opacity limit, the Department may require all point sources in that process to be tested to determine compliance with mass emissions limits. These tests shall conform to EPA test specifications under 40 CFR 60, Appendix A, including back half. PM₁₀ tests shall conform to 40 CFR 61, Appendix M, including back half and the Montana Source Test Protocol and Procedures Manual. All sources where tests are required must be equipped with stacks and sampling ports, with safe access for the sampling personnel. The Department may allow a total particulate test only if the back half is included and it is acknowledged this test can be used as a surrogate for PM₁₀ (ARM 17.8.105 and ARM 17.8.106).
- L.6. Every 3 years, a Method 5 and Method 201A source test, or another Department-approved source test method, shall be performed on the M20, M21, M22, and M23 – Line 2 MDF Materials Handling baghouses to demonstrate compliance with the emission limitations contained in Section III Table L.2. As required by the Department, a Method 5 and Method 201A source test, or another Department-approved source test method, shall be performed on the M24 - MDF Materials Handling baghouse to demonstrate compliance with the emission limitation contained in Section III Table L.2. The source test methods shall conform to the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106). The Department may allow a total particulate test only if the back-half is included and it is acknowledged that this test can be used as a surrogate for PM₁₀ (ARM 17.8.1213).
- L.7. The M20, M21, M22, M23, and M24 - MDF Material Handling Baghouses shall be inspected at least quarterly for wear, plugging, abrasion, and general integrity of the control device (ARM 17.8.1213).

Recordkeeping

- L.8. If weekly visual surveys are performed, Plum Creek shall maintain, on-site, a log including all visual observations monitoring compliance with the visual survey requirement. The log shall include the required information, the date, the time, and the initials of the documenting personnel (ARM 17.8.1212).
- L.9. All compliance source test recordkeeping shall be performed in accordance with the test method used and the Montana Source Test Protocol and Procedures Manual, and shall be maintained on-site. The reports must be submitted in accordance with the Montana Source Test Protocol and Procedures Manual except that any Method 9 source test reports shall be maintained on-site and shall be submitted to the Department only upon request (ARM 17.8.106 and ARM 17.8.1212).
- L.10. Plum Creek shall record inspections and maintenance performed as required by Section III.L.7. Each log entry must include the date, results of the inspection, and any maintenance activity or preventive action conducted. The log shall be maintained on-site for a minimum of 5 years from the date the record is made and shall be submitted to the Department upon request (ARM 17.8.1212).

Reporting

- L.11. All source test report(s) shall be submitted to the Department in accordance with the Montana Source Test Protocol and Procedures Manual except that any Method 9 source test reports shall be maintained on-site and shall be submitted to the Department only upon request (ARM 17.8.1212).
- L.12. The annual compliance certification required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).

L.13. The semiannual compliance monitoring reports shall provide (ARM 17.8.1212):

- a. If weekly visual surveys are performed during the reporting period, a summary of the results contained in the weekly visual observations log;
- b. A summary of results of any source testing that was performed during the reporting period; and
- c. A brief summary of the inspections and maintenance log.

M. MDF Hot Oil Natural Gas Burner

M25 - Hot Oil Natural Gas Burner

Permit Condition(s)	Pollutant/Parameter	Permit Limit	Compliance Demonstration		Reporting Requirement
			Method	Frequency	
M.1, M.4, M.5, M.6, M.7	Opacity	20%	Pipeline Quality Natural Gas Only	Ongoing	Semiannual
M.2, M.4, M.5, M.6, M.7	Particulate Matter / PM ₁₀	See Table N.2.	Method 5	As Required by the Department and Section III.A.1	
M.3, M.4, M.5, M.6, M.7	Pipeline Quality Natural Gas Only	H ₂ S ≤ 50 gr/100 ft ³	Recordkeeping		

Conditions

- M.1. Plum Creek shall not cause or authorize emissions to be discharged into the outdoor atmosphere from any source that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304(2)).
- M.2. Plum Creek shall comply with the emission limitations contained in Table M.2 (ARM 17.8.749 and ARM 17.8.752).

Table M.2			
Emissions Unit	Total Particulate Emissions Limit	PM ₁₀ Emissions Limit	Rule Citation
M25 - Hot Oil Natural Gas Burner	0.11 lb/hr	0.11 lb/hr	ARM 17.8.749

- M.3. Plum Creek shall not burn any gaseous fuel containing sulfur compounds in excess of 50 grains per 100 cubic feet of gaseous fuel, calculated as hydrogen sulfide at standard conditions (ARM 17.8.322(5)).

Compliance Demonstration

- M.4. The compliance demonstration method for opacity (Section III.M.1), the particulate limit and PM₁₀ limit (Section III.M.2), and sulfur compound in fuel requirements (Section III.M.3) may be satisfied by only burning pipeline quality natural gas in the burners. However, this does not preclude the Department from initiating an enforcement action if a Reference Method test indicates that one of these limits is being violated, even if only natural gas is being combusted (ARM 17.8.1213).

- M.5. As required by the Department and Section III.A.1, Plum Creek shall perform a Method 5 and a Method 201A source test, or another Department-approved source test method, to monitor compliance with the particulate emissions limit in Section III.M.2. (ARM 17.8.1213).

Recordkeeping

- M.6. Plum Creek shall maintain a record demonstrating that only pipeline quality natural gas was fired in the MDF Hot Oil Natural Gas Burner (ARM 17.8.1212).
- M.7. All compliance source test recordkeeping shall be performed in accordance with the test method used and the Montana Source Test Protocol and Procedures Manual, and shall be maintained on-site (ARM 17.8.1212).

Reporting

- M.8. The annual compliance certification required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).
- M.9. The semiannual compliance monitoring reports shall provide (ARM 17.8.1212):
- A brief summary of the log required by Section III.M.6
 - A summary of results of any source testing that was performed during the reporting period

N. Outdoor Plywood Plant Process and Material Handling Fugitive Emissions

P02 - Bucking Saws; P04 - #1 Chip Truck Bin Loadout; P05 - #2 Chip Truck Bin Loadout; P06 - #1 Truck Bin Loadout, Sawdust; P07 - #2 Truck Bin Loadout, Sawdust; and P08 - #3 Truck Bin Loadout, Hog Fuel-

Permit Condition(s)	Pollutant/Parameter	Permit Limit	Compliance Demonstration		Reporting Requirement
			Method	Frequency	
N.1, N.3, N.5, N.6, N.7, N.8, N.9	Opacity	20%	Visual Surveys	Monthly	Semiannual
			Method 9	Semiannually	Semiannual
N.2, N.4, N.6, N.7, N.8	Particulate Matter, Industrial Processes	$E = 55.0 * P^{0.11} - 40$	Method 5	As Required by the Department and Section III.A.1	Semiannual

Conditions

- N.1. Plum Creek shall not cause or authorize emissions to be discharged into the outdoor atmosphere from any source that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304(2)).
- N.2. The particulate emissions from process weight shall not exceed the value calculated by $E = 55.0 * P^{0.11} - 40$, where E is the rate of emissions in pounds per hour and P is the process weight rate in tons per hour (ARM 17.8.310).

Compliance Demonstration

- N.3. Plum Creek shall demonstrate compliance with the opacity limitations of Section III.N.1 through visual surveys and EPA Method 9 Tests as follows:

Plum Creek shall conduct either a semiannual Method 9 source test or a weekly visual survey of visible emissions on the outdoor plywood plant process and material handling emissions. Under the visual survey option, once per calendar week, during daylight hours, Plum Creek shall visually survey for any visible emissions. If visible emissions are observed during the visual survey, Plum Creek shall conduct a Method 9 source test. The Method 9 source test shall begin within one hour of any observation of visible emissions. If visible emissions meet or exceed 15% opacity based on the Method 9 source test, Plum Creek shall immediately take corrective action to contain or minimize the source of emissions. If corrective actions are taken, then Plum Creek shall immediately conduct a subsequent visual survey (and subsequent Method 9 source test if visible emissions remain) to monitor compliance. The person conducting the visual survey shall record the results of the survey (including the results of any Method 9 source test performed) in a log, including any corrective action taken. Conducting a visual survey does not relieve Plum Creek of the liability for a violation determined using Method 9 (ARM 17.8.101(27)).

If the visual surveys are not performed once per calendar week as specified above during the reporting period, then Plum Creek shall perform the Method 9 source tests on the outdoor plywood plant process and material handling emissions for that reporting period.

Method 9 source tests shall be performed in accordance with the Montana Source Test Protocol and Procedures Manual, except that prior notification of the test is not required. Each observation period must be a minimum of 6 minutes unless any one reading is 20% or greater, then the observation period must be a minimum of 20 minutes or until a violation of the standard has been documented, whichever is a shorter period of time (ARM 17.8.1213).

- N.4. As required by the Department and Section III.A.1, Plum Creek shall perform a Method 5 source test, or another Department approved source test method, to monitor compliance with the particulate emissions limit in Section III.N.2. The test methods shall be performed in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106 and ARM 17.8.1213).

Recordkeeping

- N.5. If weekly visual surveys are performed, Plum Creek shall maintain, on-site, a log including all visual observations monitoring compliance with the visual survey requirement. The log shall include the required information, the date, the time, and the initials of the documenting personnel (ARM 17.8.1212).
- N.6. All compliance source test recordkeeping shall be performed in accordance with the test method used and the Montana Source Test Protocol and Procedures Manual, and shall be maintained on site. The reports must be submitted in accordance with the Montana Source Test Protocol and Procedures Manual except that any Method 9 source test reports shall be maintained on-site and shall be submitted to the Department only upon request (ARM 17.8.106 and ARM 17.8.1212).

Reporting

- N.7. All source test report(s) shall be submitted to the Department in accordance with the Montana Source Test Protocol and Procedures Manual except that any Method 9 source test reports shall be maintained on-site and shall be submitted to the Department only upon request (ARM 17.8.1212).

- N.8. The annual compliance certification required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).
- N.9. The semiannual compliance monitoring reports shall provide (ARM 17.8.1212):
- If weekly visual surveys are performed during the reporting period, a summary of the results contained in the weekly visual observations log; and
 - A summary of results of any source testing that was performed during the reporting period.

O. Plywood Presses

P16 - Plywood Presses

Permit Condition(s)	Pollutant/Parameter	Permit Limit	Compliance Demonstration		Reporting Requirement
			Method	Frequency	
O.1, O.2, O.3, O.4, O.5, O.6	Opacity	20%	Visual Surveys	Weekly	Semiannual
			Method 9	Semiannually	

Conditions

- O.1. Plum Creek shall not cause or authorize emissions to be discharged into the outdoor atmosphere from the plywood presses that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304(2)).

Compliance Demonstration

- O.2. Plum Creek shall demonstrate compliance with the opacity limitations of Section III.O.1 through visual surveys and EPA Method 9 Tests as follows:

Plum Creek shall conduct either a semiannual Method 9 source test or a weekly visual survey of visible emissions. Under the visual survey option, once per calendar week, during daylight hours, Plum Creek shall visually survey for any visible emissions. If visible emissions are observed during the visual survey, Plum Creek shall conduct a Method 9 source test. The Method 9 source test shall begin within one hour of any observation of visible emissions. If visible emissions meet or exceed 15% opacity based on the Method 9 source test, Plum Creek shall immediately take corrective action to contain or minimize the source of emissions. If corrective actions are taken, then Plum Creek shall immediately conduct a subsequent visual survey (and subsequent Method 9 source test if visible emissions remain) to monitor compliance. The person conducting the visual survey shall record the results of the survey (including the results of any Method 9 source test performed) in a log, including any corrective action taken. Conducting a visual survey does not relieve Plum Creek of the liability for a violation determined using Method 9 (ARM 17.8.101(27)).

If the visual surveys are not performed once per calendar week as specified above during the reporting period, then Plum Creek shall perform the Method 9 source tests for that reporting period.

Method 9 source tests shall be performed in accordance with the Montana Source Test Protocol and Procedures Manual, except that prior notification of the test is not required. Each observation period must be a minimum of 6 minutes unless any one reading is 20% or greater, then the observation period must be a minimum of 20 minutes or until a violation of the standard has been documented, whichever is a shorter period of time (ARM 17.8.1213).

Recordkeeping

- O.3. If weekly visual surveys are performed, Plum Creek shall maintain, on-site, a log including all visual observations monitoring compliance with the visual survey requirement. The log shall include the required information, the date, the time, and the initials of the documenting personnel (ARM 17.8.1212).
- O.4. All compliance source test recordkeeping shall be performed in accordance with the test method used and the Montana Source Test Protocol and Procedures Manual, and shall be maintained on site. The reports must be submitted in accordance with the Montana Source Test Protocol and Procedures Manual except that any Method 9 source test reports shall be maintained on-site and shall be submitted to the Department only upon request (ARM 17.8.106 and ARM 17.8.1212).

Reporting

- O.5. The annual compliance certification required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).
- O.6. The semiannual compliance monitoring reports shall provide (ARM 17.8.1212):
- If weekly visual surveys are performed during the reporting period, a summary of the results contained in the weekly visual observations log; and
 - A summary of results of any source testing that was performed during the reporting period.

P. Plywood Material Handling Baghouses and Cyclones

P19 - Plywood Sander Baghouse; P20 - Plywood 18" Trim Baghouse; P21 - Plywood 30" Trim Baghouse; and P23 - Plywood Chip Bin Cyclone

Permit Condition(s)	Pollutant/Parameter	Permit Limit	Compliance Demonstration		Reporting Requirement
			Method	Frequency	
P.1, P.3, P.6, P.7, P.9, P.10, P.11	Opacity	20%	Visual Surveys Method 9	Weekly Semiannually	Semiannual
P.2, P.4, P.5, P.7, P.8, P.9, P.10, P.11	Particulate Matter / PM ₁₀	See Table P.2.	Method 5 / Method 201A and operation and maintenance of control equipment	As Required by the Department and Section III.A.1	Semiannual

Conditions

- P.1. Plum Creek shall not cause or authorize emissions to be discharged into the outdoor atmosphere from any source that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304(2)).

- P.2. Plum Creek shall comply with the emission limitations contained in Table P.2 (ARM 17.8.749 and ARM 17.8.752).

Table P.2		
Emissions Unit	Total Particulate Emissions Limit	PM₁₀ Emissions Limit
P19 Plywood Sander Dust Baghouse	1.35 lb/hr	1.35 lb/hr
P20 Plywood 18" Trim Hog Baghouse	0.58 lb/hr	0.58 lb/hr
P21 Plywood 30" Trim Hog Baghouse	0.58 lb/hr	0.58 lb/hr
P23 Plywood Chip Bin Cyclone	1.30 lb/hr	0.52 lb/hr

Compliance Demonstration

- P.3. Plum Creek shall demonstrate compliance with the opacity limitations of Section III.P.1 through visual surveys and EPA Method 9 Tests as follows:

Plum Creek shall conduct either a semiannual Method 9 source test or a weekly visual survey of visible emissions. Under the visual survey option, once per calendar week, during daylight hours, Plum Creek shall visually survey for any visible emissions. If visible emissions are observed during the visual survey, Plum Creek shall conduct a Method 9 source test. The Method 9 source test shall begin within one hour of any observation of visible emissions. If visible emissions meet or exceed 15% opacity based on the Method 9 source test, Plum Creek shall immediately take corrective action to contain or minimize the source of emissions. If corrective actions are taken, then Plum Creek shall immediately conduct a subsequent visual survey (and subsequent Method 9 source test if visible emissions remain) to monitor compliance. The person conducting the visual survey shall record the results of the survey (including the results of any Method 9 source test performed) in a log, including any corrective action taken. Conducting a visual survey does not relieve Plum Creek of the liability for a violation determined using Method 9 (ARM 17.8.101(27)).

If the visual surveys are not performed once per calendar week as specified above during the reporting period, then Plum Creek shall perform the Method 9 source tests for that reporting period.

Method 9 source tests shall be performed in accordance with the Montana Source Test Protocol and Procedures Manual, except that prior notification of the test is not required. Each observation period must be a minimum of 6 minutes unless any one reading is 20% or greater, then the observation period must be a minimum of 20 minutes or until a violation of the standard has been documented, whichever is a shorter period of time (ARM 17.8.1213).

If any point source exceeds an applicable opacity limit, the Department may require all point sources to be tested to determine compliance with mass emission limits. These tests shall conform to EPA test specifications under 40 CFR 60, Appendix A, including back half. PM₁₀ tests shall conform to 40 CFR 51, Appendix M, including back-half and the Montana Source Test Protocol and Procedures Manual. All sources where tests are required must be equipped with stacks and sampling port, with safe access for the sampling personnel. The Department may allow a total particulate test if the back half is included and it is acknowledged this test can be used as a surrogate for PM₁₀ (ARM 17.8.105 and ARM 17.8.106).

- P.4. For the purpose of monitoring compliance with the particulate and PM₁₀ emission limits, each Plywood Material Handling Baghouse and Cyclone shall be inspected at least quarterly for wear, plugging, abrasion, and general integrity of the control device (ARM 17.8.1213).

- P.5. As required by the Department and Section III.A.1, Plum Creek shall perform a Method 5 and a Method 201A source test, or another Department approved source test method, to monitor compliance with the emission limits in Section III Table P.2. The test methods shall be conducted in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106). The Department may allow a total particulate test only if the back-half is included and it is acknowledged that this test can be used as a surrogate for PM₁₀ (ARM 17.8.1213).

Recordkeeping

- P.6. If weekly visual surveys are performed, Plum Creek shall maintain, on-site, a log including all visual observations monitoring compliance with the visual survey requirement. The log shall include the required information, the date, the time, and the initials of the documenting personnel (ARM 17.8.1212).
- P.7. All compliance source test recordkeeping shall be performed in accordance with the test method used and the Montana Source Test Protocol and Procedures Manual, and shall be maintained on site. The reports must be submitted in accordance with the Montana Source Test Protocol and Procedures Manual except that any Method 9 source test reports shall be maintained on-site and shall be submitted to the Department only upon request (ARM 17.8.106 and ARM 17.8.1212).
- P.8. Plum Creek shall record inspections and maintenance performed as required by Section III.P.4. Each log entry must include the date, results of the inspection, and any maintenance activity or preventive action conducted. The log shall be maintained on-site for a minimum of 5 years from the date the record is made and shall be submitted to the Department upon request (ARM 17.8.1212).

Reporting

- P.9. All source test report(s) shall be submitted to the Department in accordance with the Montana Source Test Protocol and Procedures Manual except that any Method 9 source test reports shall be maintained on-site and shall be submitted to the Department only upon request (ARM 17.8.1212).
- P.10. The annual compliance certification required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).
- P.11. The semiannual compliance monitoring reports shall provide (ARM 17.8.1212):
- a. If weekly visual surveys are performed during the reporting period, a summary of the results contained in the weekly visual observations log; and
 - b. A summary of results of any source testing that was performed during the reporting period; and
 - c. A brief summary of the inspection and maintenance log.

Q. Plywood Veneer Dryers

P22 Veneer Dryers and P14 Veneer Dryers, roof vents at feed point

Permit Condition(s)	Pollutant/Parameter	Permit Limit	Compliance Demonstration		Reporting Requirement
			Method	Frequency	
Q.1, Q.6, Q.10, Q.11, Q.14, Q.15, Q.16	Opacity	20%	Visual Surveys	Weekly	Semiannual
			Method 9	Semiannually	
Q.2, Q.7, Q.11, Q.14, Q.15, Q.16	Particulate Matter	10.00 lb/hr	Method 5	Every three years	
Q.3, Q.7, Q.11, Q.14, Q.15, Q.16	PM ₁₀	10.00 lb/hr	Method 201A	Every three years	
Q.4, Q.8, Q.12, Q.15, Q.16	Sulfur in Fuel (liquid or solid fuels)	<1lb S/MMBtu fired	Recordkeeping	Ongoing	
Q.5, Q.9, Q.13, Q.15, Q.16	ESP	Operate and Maintain	Inspection	Ongoing	

Conditions

- Q.1. Plum Creek shall not cause or authorize emissions to be discharged into the outdoor atmosphere from any of the veneer dryers that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304(2)).
- Q.2. Plywood veneer dryer emissions of total particulate shall be limited to 10.00 lb/hr (ARM 17.8.749).
- Q.3. Plywood veneer dryer emissions of PM₁₀ shall be limited to 10.00 lb/hr (ARM 17.8.749).
- Q.4. Plum Creek shall not burn liquid or solid fuels containing sulfur in excess of 1 lb/MMBtu (ARM 17.8.322(4)).
- Q.5. Plum Creek shall operate and maintain the ESP on the veneer dryers (ARM 17.8.749).

Compliance Demonstration

- Q.6. Plum Creek shall demonstrate compliance with the opacity limitations of Section III.Q.1 through visual surveys and EPA Method 9 Tests as follows:

Plum Creek shall conduct either a semiannual Method 9 source test or a weekly visual survey of visible emissions. Under the visual survey option, once per calendar week, during daylight hours, Plum Creek shall visually survey for any visible emissions. If visible emissions are observed during the visual survey, Plum Creek shall conduct a Method 9 source test. The Method 9 source test shall begin within one hour of any observation of visible emissions. If visible emissions meet or exceed 15% opacity based on the Method 9 source test, Plum Creek shall immediately take corrective action to contain or minimize the source of emissions. If corrective actions are taken, then Plum Creek shall immediately conduct a subsequent visual survey (and subsequent Method 9 source test if visible emissions remain) to monitor compliance. The person conducting the visual survey shall record the results of the survey (including the results of any Method 9 source test performed) in a log, including any corrective action taken. Conducting a visual survey does not relieve Plum Creek of the liability for a violation determined using Method 9 (ARM 17.8.101(27)).

If the visual surveys are not performed once per calendar week as specified above during the reporting period, then Plum Creek shall perform the Method 9 source tests for that reporting period.

Method 9 source tests shall be performed in accordance with the Montana Source Test Protocol and Procedures Manual, except that prior notification of the test is not required. Each observation period must be a minimum of 6 minutes unless any one reading is 20% or greater, then the observation period must be a minimum of 20 minutes or until a violation of the standard has been documented, whichever is a shorter period of time (ARM 17.8.1213).

- Q.7. Every 3 years, a Method 5 and Method 201A source test, or another Department-approved source test method, shall be performed on the P22 Veneer Dryer stack to monitor compliance with the emission limitations contained in Section III.Q.2 and III.Q.3, respectively. The source test methods shall conform to the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106). The Department may allow a total particulate test only if the back-half is included and it is acknowledged that this test can be used as a surrogate for PM₁₀ (ARM 17.8.1213).
- Q.8. Plum Creek shall burn only wood waste in the Wellons Wood Waste Burner, which supplies heat to the Plywood Veneer Dryers (ARM 17.8.1213).
- Q.9. Plum Creek shall perform at least semiannual inspections on the ESP and the Plywood Veneer Dryers. The inspections should be conducted in accordance with the manufacturer's maintenance recommendations (ARM 17.8.1213).

Recordkeeping

- Q.10. If weekly visual surveys are performed, Plum Creek shall maintain, on-site, a log including all visual observations monitoring compliance with the visual survey requirement. The log shall include the required information, the date, the time, and the initials of the documenting personnel (ARM 17.8.1212).
- Q.11. All compliance source test recordkeeping shall be performed in accordance with the test method used and the Montana Source Test Protocol and Procedures Manual, and shall be maintained on site. The reports must be submitted in accordance with the Montana Source Test Protocol and Procedures Manual except that any Method 9 source test reports shall be maintained on-site and shall be submitted to the Department only upon request (ARM 17.8.106 and ARM 17.8.1212).
- Q.12. Plum Creek shall maintain a daily Wellons Wood Waste /burner operations log documenting anytime material other than wood waste is burned, the date, time, amount burned, and the initials of the documenting personnel. The log must be maintained on-site and must be submitted to the Department upon request (ARM 17.8.1212).
- Q.13. Plum Creek shall record inspections and maintenance performed as required by Section III.Q.9. Each log entry must include the date, results of the inspection, and any maintenance activity or preventive action conducted. The log shall be maintained on-site for a minimum of 5 years from the date the record is made and shall be submitted to the Department upon request (ARM 17.8.1212).

Reporting

- Q.14. All source test report(s) shall be submitted to the Department in accordance with the Montana Source Test Protocol and Procedures Manual except that any Method 9 source test reports shall be maintained on-site and shall be submitted to the Department only upon request (ARM 17.8.1212).
- Q.15. The annual compliance certification required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).
- Q.16. The semiannual compliance monitoring reports shall provide (ARM 17.8.1212):
- If weekly visual surveys are performed during the reporting period, a summary of the results contained in the weekly visual observations log; and
 - A summary of results of any source testing that was performed during the reporting period;
 - A brief summary of the inspections and maintenance log; and
 - A summary of the operations log required by Section III.Q.12.

R. Outside Sawmill Process and Material Handling Fugitive Emissions

S02 - Chop Saws; S05 - Sawdust Truck Bin Loadout; and S08 - Planer Shavings Truck Bin Loadout

Permit Condition(s)	Pollutant Parameter	Permit Limit	Compliance Demonstration		Reporting Requirement
			Method	Frequency	
R.1, R.3, R.5, R.6, R.7, R.8, R.9	Opacity	20%	Visual Surveys Method 9	Monthly Semiannually	Semiannual
R.2, R.4, R.6, R.7, R.8, R.9	Particulate Matter, Industrial Processes	$E = 4.10 * P^{0.67}$	Method 5	As Required by the Department and Section III.A.1	

Conditions

- R.1. Plum Creek shall not cause or authorize emissions to be discharged into the outdoor atmosphere from any source that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304(2)).
- R.2. The particulate emissions from process weight shall not exceed the value calculated by $E = 4.10 * P^{0.67}$, where E is the rate of emissions in pounds per hour and P is the process weight rate in tons per hour (ARM 17.8.310).

Compliance Demonstration

- R.3. Plum Creek shall demonstrate compliance with the opacity limitations of Section III.R.1 through visual surveys and EPA Method 9 Tests as follows:

Plum Creek shall conduct either a semiannual Method 9 source test or a weekly visual survey of visible emissions. Under the visual survey option, once per calendar week, during daylight hours, Plum Creek shall visually survey for any visible emissions. If visible emissions are observed

during the visual survey, Plum Creek shall conduct a Method 9 source test. The Method 9 source test shall begin within one hour of any observation of visible emissions. If visible emissions meet or exceed 15% opacity based on the Method 9 source test, Plum Creek shall immediately take corrective action to contain or minimize the source of emissions. If corrective actions are taken, then Plum Creek shall immediately conduct a subsequent visual survey (and subsequent Method 9 source test if visible emissions remain) to monitor compliance. The person conducting the visual survey shall record the results of the survey (including the results of any Method 9 source test performed) in a log, including any corrective action taken. Conducting a visual survey does not relieve Plum Creek of the liability for a violation determined using Method 9 (ARM 17.8.101(27)).

If the visual surveys are not performed once per calendar week as specified above during the reporting period, then Plum Creek shall perform the Method 9 source tests for that reporting period.

Method 9 source tests shall be performed in accordance with the Montana Source Test Protocol and Procedures Manual, except that prior notification of the test is not required. Each observation period must be a minimum of 6 minutes unless any one reading is 20% or greater, then the observation period must be a minimum of 20 minutes or until a violation of the standard has been documented, whichever is a shorter period of time (ARM 17.8.1213).

- R.4. As required by the Department and Section III.A.1, Plum Creek shall perform a Method 5 source test, or another Department approved source test method, to monitor compliance with the particulate emissions limit in Section III.R.2. The test methods shall be performed in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106 and ARM 17.8.1213).

Recordkeeping

- R.5. If weekly visual surveys are performed, Plum Creek shall maintain, on-site, a log including all visual observations monitoring compliance with the visual survey requirement. The log shall include the required information, the date, the time, and the initials of the documenting personnel (ARM 17.8.1212).
- R.6. All compliance source test recordkeeping shall be performed in accordance with the test method used and the Montana Source Test Protocol and Procedures Manual, and shall be maintained on site. The reports must be submitted in accordance with the Montana Source Test Protocol and Procedures Manual except that any Method 9 source test reports shall be maintained on-site and shall be submitted to the Department only upon request (ARM 17.8.106 and ARM 17.8.1212).

Reporting

- R.7. All source test report(s) shall be submitted to the Department in accordance with the Montana Source Test Protocol and Procedures Manual except that any Method 9 source test reports shall be maintained on-site and shall be submitted to the Department only upon request (ARM 17.8.1212).
- R.8. The annual compliance certification required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).

- R.9. The semiannual compliance monitoring reports shall provide (ARM 17.8.1212):
- If weekly visual surveys are performed during the reporting period, a summary of the results contained in the weekly visual observations log; and
 - A summary of results of any source testing that was performed during the reporting period.

S. Lumber Drying

S10 - Lumber Drying Kilns

Permit Condition(s)	Pollutant/Parameter	Permit Limit	Compliance Demonstration		Reporting Requirement
			Method	Frequency	
S.1, S.3, S.5, S.6, S.7, S.8, S.9	Opacity	20%	Visual Surveys	Weekly	Semiannual
			Method 9	Semiannually	
S.2, S.4, S.6, S.7, S.8, S.9	Particulate Matter, Industrial Processes	$E = 55 * P^{0.11} - 40$	Method 5	As Required by the Department and Section III.A.1	

Conditions

- S.1. Plum Creek shall not cause or authorize emissions to be discharged into the outdoor atmosphere from any source that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304(2)).
- S.2. The particulate emissions from process weight shall not exceed the value calculated by $E = 55.0 * P^{0.11} - 40$, where E is the emissions in pounds per hour and P is the process weight in tons per hour (ARM 17.8.310).

Compliance Demonstration

- S.3. Plum Creek shall demonstrate compliance with the opacity limitations of Section III.S.1 through visual surveys and EPA Method 9 Tests as follows:

Plum Creek shall conduct either a semiannual Method 9 source test or a weekly visual survey of visible emissions. Under the visual survey option, once per calendar week, during daylight hours, Plum Creek shall visually survey for any visible emissions. If visible emissions are observed during the visual survey, Plum Creek shall conduct a Method 9 source test. The Method 9 source test shall begin within one hour of any observation of visible emissions. If visible emissions meet or exceed 15% opacity based on the Method 9 source test, Plum Creek shall immediately take corrective action to contain or minimize the source of emissions. If corrective actions are taken, then Plum Creek shall immediately conduct a subsequent visual survey (and subsequent Method 9 source test if visible emissions remain) to monitor compliance. The person conducting the visual survey shall record the results of the survey (including the results of any Method 9 source test performed) in a log, including any corrective action taken. Conducting a visual survey does not relieve Plum Creek of the liability for a violation determined using Method 9 (ARM 17.8.101(27)).

If the visual surveys are not performed once per calendar week as specified above during the reporting period, then Plum Creek shall perform the Method 9 source tests for that reporting period.

Method 9 source tests shall be performed in accordance with the Montana Source Test Protocol and Procedures Manual, except that prior notification of the test is not required. Each observation period must be a minimum of 6 minutes unless any one reading is 20% or greater, then the observation period must be a minimum of 20 minutes or until a violation of the standard has been documented, whichever is a shorter period of time (ARM 17.8.1213).

- S.4. As required by the Department and Section III.A.1, Plum Creek shall perform a Method 5 source test, or another Department approved source test method, to monitor compliance with the particulate emissions limit in Section III.S.2. The test methods shall be performed in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106 and ARM 17.8.1213).

Recordkeeping

- S.5. If weekly visual surveys are performed, Plum Creek shall maintain, on-site, a log including all visual observations monitoring compliance with the visual survey requirement. The log shall include the required information, the date, the time, and the initials of the documenting personnel (ARM 17.8.1212).
- S.6. All compliance source test recordkeeping shall be performed in accordance with the test method used and the Montana Source Test Protocol and Procedures Manual, and shall be maintained on site. The reports must be submitted in accordance with the Montana Source Test Protocol and Procedures Manual except that any Method 9 source test reports shall be maintained on-site and shall be submitted to the Department only upon request (ARM 17.8.106 and ARM 17.8.1212).

Reporting

- S.7. All source test report(s) shall be submitted to the Department in accordance with the Montana Source Test Protocol and Procedures Manual except that any Method 9 source test reports shall be maintained on-site and shall be submitted to the Department only upon request (ARM 17.8.1212).
- S.8. The annual compliance certification required by Section V.B must contain a certification statement for the above applicable requirements.
- S.9. The semiannual compliance monitoring reports shall provide (ARM 17.8.1212):
- a. If weekly visual surveys are performed during the reporting period, a summary of the results contained in the weekly visual observations log; and
 - b. A summary of results of any source testing that was performed during the reporting period.

T. Sawmill Material Handling Cyclones

S12 - Planer #3 Cyclone; S13 - Planer #4 Cyclone; S14 - Planer Shavings Truck Bin Cyclone; S15 - Planer Chip Truck Bin Cyclone; S16 - Sawmill Chip Bin Cyclone; and S17 - Sawmill Sawdust Target Box

Permit Condition(s)	Pollutant/Parameters	Permit Limit	Compliance Demonstration		Reporting Requirement
			Method	Frequency	
T.1, T.3, T.6, T.7, T.9, T.10, T.11	Opacity	20%	Visual Surveys	Weekly	Semiannual
			Method 9	Semiannually	
T.2, T.3, T.4, T.5, T.7, T.8, T.9, T.10, T.11	Particulate Matter	See Table T.2.	Control Equipment Operation and maintenance	Ongoing	Semiannual
			Method 5	As Required by the Department and Section III.A.1	Semiannual
			Method 201A	As Required by the Department and Section III.A.1	Semiannual

Conditions

- T.1. Plum Creek shall not cause or authorize emissions to be discharged into the outdoor atmosphere from any source that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.304(2)).
- T.2. Plum Creek shall comply with the emission limitations contained in Table T.2 (ARM 17.8.749).

Table T.2		
Emissions Unit	Total Particulate Emissions Limit	PM ₁₀ Emissions Limit
S12 - Planer #3 Cyclone	5.55 lb/hr	2.22 lb/hr
S13 - Planer #4 Cyclone	13.90 lb/hr	5.55 lb/hr
S14 - Planer Shavings Truck Bin Cyclone	1.39 lb/hr	0.56 lb/hr
S15 - Planer Chip Truck Bin Cyclone	1.39 lb/hr	0.56 lb/hr
S16 - Sawmill Chip Bin Cyclone	1.39 lb/hr	0.56 lb/hr

Compliance Demonstration

- T.3. Plum Creek shall demonstrate compliance with the opacity limitations of Section III.T.1 through visual surveys and EPA Method 9 Tests as follows:

Plum Creek shall conduct either a semiannual Method 9 source test or a weekly visual survey of visible emissions. Under the visual survey option, once per calendar week, during daylight hours, Plum Creek shall visually survey for any visible emissions. If visible emissions are observed during the visual survey, Plum Creek shall conduct a Method 9 source test. The Method 9 source test shall begin within one hour of any observation of visible emissions. If visible emissions meet or exceed 15% opacity based on the Method 9 source test, Plum Creek shall immediately take corrective action to contain or minimize the source of emissions. If corrective actions are taken, then Plum Creek shall immediately conduct a subsequent visual survey (and subsequent Method

9 source test if visible emissions remain) to monitor compliance. The person conducting the visual survey shall record the results of the survey (including the results of any Method 9 source test performed) in a log, including any corrective action taken. Conducting a visual survey does not relieve Plum Creek of the liability for a violation determined using Method 9 (ARM 17.8.101(27)).

If the visual surveys are not performed once per calendar week as specified above during the reporting period, then Plum Creek shall perform the Method 9 source tests for that reporting period.

Method 9 source tests shall be performed in accordance with the Montana Source Test Protocol and Procedures Manual, except that prior notification of the test is not required. Each observation period must be a minimum of 6 minutes unless any one reading is 20% or greater, then the observation period must be a minimum of 20 minutes or until a violation of the standard has been documented, whichever is a shorter period of time (ARM 17.8.1213).

If any point source exceeds an applicable opacity limit, the Department may require all point sources to be tested to determine compliance with mass emission limits. These tests shall conform to EPA test specifications under 40 CFR 60, Appendix A, including back half. PM₁₀ tests shall conform to 40 CFR 51, Appendix M, including back-half and the Montana Source Test Protocol and Procedures Manual. All sources where tests are required must be equipped with stacks and sampling port, with safe access for the sampling personnel. The Department may allow a total particulate test if the back half is included and it is acknowledged this test can be used as a surrogate for PM₁₀ (ARM 17.8.105 and ARM 17.8.106).

- T.4. For monitoring pertaining to the particulate emission limits, each Sawmill Material Handling Cyclone must be inspected at least quarterly for wear, plugging, abrasion, and general integrity of the control device (ARM 17.8.1213).
- T.5. As required by the Department and Section III.A.1, Plum Creek shall perform a Method 5 source test, or another Department approved source test method, to monitor compliance with the particulate emissions limit in Section III.T.2. The test methods shall be conducted in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106). The Department may allow a total particulate test only if the back-half is included and it is acknowledged that this test can be used as a surrogate for PM₁₀ (ARM 17.8.1213).

Recordkeeping

- T.6. If weekly visual surveys are performed, Plum Creek shall maintain, on-site, a log including all visual observations monitoring compliance with the visual survey requirement. The log shall include the required information, the date, the time, and the initials of the documenting personnel (ARM 17.8.1212).
- T.7. All compliance source test recordkeeping shall be performed in accordance with the test method used and the Montana Source Test Protocol and Procedures Manual, and shall be maintained on site. The reports must be submitted in accordance with the Montana Source Test Protocol and Procedures Manual except that any Method 9 source test reports shall be maintained on-site and shall be submitted to the Department only upon request (ARM 17.8.106 and ARM 17.8.1212).
- T.8. Plum Creek shall record inspections and maintenance performed as required by Section III.T.4. Each log entry must include the date, results of the inspection, and any maintenance activity or preventive action conducted. The log shall be maintained on-site for a minimum of 5 years from the date the record is made and shall be submitted to the Department upon request (ARM 17.8.1212).

Reporting

- T.9. All source test report(s) shall be submitted to the Department in accordance with the Montana Source Test Protocol and Procedures Manual except that any Method 9 source test reports shall be maintained on-site and shall be submitted to the Department only upon request (ARM 17.8.1212).
- T.10. The annual compliance certification required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).
- T.11. The semiannual compliance monitoring reports shall provide (ARM 17.8.1212):
- If weekly visual surveys are performed during the reporting period, a summary of the results contained in the weekly visual observations log;
 - A summary of results of any source testing that was performed during the reporting period; and
 - A brief summary of the inspections and maintenance log.

U. Fugitive Emissions: Vehicle Traffic

F01 Vehicle Activity

Permit Condition(s)	Pollutant/Parameter	Permit Limit	Compliance Demonstration		Reporting Requirement
			Method	Frequency	
U.1, U.3, U.4, U.6, U.7, U.8, U.9, U.10, U.11	Opacity	20%	Visual Surveys	Weekly	Semiannual
			Method 9	Semiannual	
U.2, U.4, U.5, U.8, U.10, U.11	Opacity	Reasonable Precautions	Chemical Dust Suppressant	No less than once per year	

Conditions

- U.1. Plum Creek shall not cause or authorize the production, handling, transportation, or storage of any material unless reasonable precautions to control emissions of particulate matter are taken. Such emissions of airborne particulate from any stationary source shall not exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.308 (1)).
- U.2. Plum Creek shall not cause or authorize the use of any street, road or parking lot without taking reasonable precautions to control emissions of airborne particulate matter (ARM 17.8.308(2)).

Compliance Demonstration

- U.3. Plum Creek shall demonstrate compliance with the opacity limitations of Section III.U.1 through visual surveys and EPA Method 9 Tests as follows:

Plum Creek shall conduct either a semiannual Method 9 source test or a weekly visual survey of visible emissions. Under the visual survey option, once per calendar week, during daylight hours, Plum Creek shall visually survey for any visible emissions. If visible emissions are observed during the visual survey, Plum Creek shall conduct a Method 9 source test. The Method 9 source test shall begin within one hour of any observation of visible emissions. If visible emissions meet or exceed 15% opacity based on the Method 9 source test, Plum Creek shall immediately take

corrective action to contain or minimize the source of emissions. If corrective actions are taken, then Plum Creek shall immediately conduct a subsequent visual survey (and subsequent Method 9 source test if visible emissions remain) to monitor compliance. The person conducting the visual survey shall record the results of the survey (including the results of any Method 9 source test performed) in a log, including any corrective action taken. Conducting a visual survey does not relieve Plum Creek of the liability for a violation determined using Method 9 (ARM 17.8.101(27)).

If the visual surveys are not performed once per calendar week as specified above during the reporting period, then Plum Creek shall perform the Method 9 source tests for that reporting period.

Method 9 source tests shall be performed in accordance with the Montana Source Test Protocol and Procedures Manual, except that prior notification of the test is not required. Each observation period must be a minimum of 6 minutes unless any one reading is 20% or greater, then the observation period must be a minimum of 20 minutes or until a violation of the standard has been documented, whichever is a shorter period of time (ARM 17.8.1213).

- U.4. A chemical dust suppressant shall be applied to the unpaved major roads on the log yard to control fugitive dust from all log-handling equipment. The application schedule shall be no less than once per year. Water sprays shall be used as necessary to control dust emissions on active areas of the log yard. The opacity of the log yard dust emissions shall not exceed 20% averaged over 6 consecutive minutes at any time (ARM 17.8.308).
- U.5. Chemical dust suppressants shall be applied to the unpaved major haul routes throughout the plant to control fugitive dust from the haul trucks. The application schedule shall be not less than once per year. The opacity of the haul road dust emissions shall not exceed 20% averaged over 6 consecutive minutes at any time (ARM 17.8.308).

Recordkeeping

- U.6. If weekly visual surveys are performed, Plum Creek shall maintain, on-site, a log including all visual observations monitoring compliance with the visual survey requirement. The log shall include the required information, the date, the time, and the initials of the documenting personnel (ARM 17.8.1212).
- U.7. All compliance source test recordkeeping shall be performed in accordance with the test method used and the Montana Source Test Protocol and Procedures Manual, and shall be maintained on site. The reports must be submitted in accordance with the Montana Source Test Protocol and Procedures Manual except that any Method 9 source test reports shall be maintained on-site and shall be submitted to the Department only upon request (ARM 17.8.106 and ARM 17.8.1212).
- U.8. Plum Creek shall maintain a log of the date and areas that chemical dust suppressant is applied. The log shall be maintained on-site for a minimum of 5 years from the date of the last record, and shall be submitted to the Department upon request (ARM 17.8.1212).

Reporting

- U.9. All source test report(s) shall be submitted to the Department in accordance with the Montana Source Test Protocol and Procedures Manual except that any Method 9 source test reports shall be maintained on-site and shall be submitted to the Department only upon request (ARM 17.8.1212).

- U.10. The annual compliance certification required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).
- U.11. The semiannual compliance monitoring reports shall provide (ARM 17.8.1212):
- If weekly visual surveys are performed during the reporting period, a summary of the results contained in the weekly visual observations log; and
 - A summary of results of any source testing that was performed during the reporting period; and
 - A summary of records kept as required by Section III.U.8

V. Hog Boiler Fuel Handling and Storage

F04 - Hog Boiler Fuel Handling and Storage

Permit Condition(s)	Pollutant/Parameter	Permit Limit	Compliance Demonstration		Reporting Requirement
			Method	Frequency	
V.1, V.3, V.5, V.6, V.7, V.8, V.9	Opacity	20%	Visual Surveys	Weekly	Semiannual
			Method 9	As Required by the Department and Section III.A.1	Semiannual
V.2, V.4, V.6, V.7, V.8	Particulate Matter, Industrial Processes	$E=4.10 * P^{0.67}$	Method 5	As Required by the Department and Section III.A.1	Annual Certification

Conditions

- V.1. Plum Creek shall not cause or authorize the production, handling, transportation, or storage of any material unless reasonable precautions to control emissions of particulate matter are taken. Such emissions of airborne particulate from any stationary source shall not exhibit an opacity of 20% or greater averaged over six consecutive minutes (ARM 17.8.308(1)).
- V.2. The particulate emissions from process weight shall not exceed the value calculated by $E=4.10 * P^{0.67}$, where E is the rate of emissions in pounds per hour and P is the process weight rate in tons per hour (ARM 17.8.310).

Compliance Demonstration

- V.3. Plum Creek shall demonstrate compliance with the opacity limitations of Section III.V.1 through visual surveys and EPA Method 9 Tests as follows:

Plum Creek shall conduct either a semiannual Method 9 source test or a weekly visual survey of visible emissions. Under the visual survey option, once per calendar week, during daylight hours, Plum Creek shall visually survey for any visible emissions. If visible emissions are observed during the visual survey, Plum Creek shall conduct a Method 9 source test. The Method 9 source test shall begin within one hour of any observation of visible emissions. If visible emissions meet or exceed 15% opacity based on the Method 9 source test, Plum Creek shall immediately take corrective action to contain or minimize the source of emissions. If corrective actions are taken, then Plum Creek shall immediately conduct a subsequent visual survey (and subsequent Method 9 source test if visible emissions remain) to monitor compliance. The person conducting the

visual survey shall record the results of the survey (including the results of any Method 9 source test performed) in a log, including any corrective action taken. Conducting a visual survey does not relieve Plum Creek of the liability for a violation determined using Method 9 (ARM 17.8.101(27)).

If the visual surveys are not performed once per calendar week as specified above during the reporting period, then Plum Creek shall perform the Method 9 source tests for that reporting period.

Method 9 source tests shall be performed in accordance with the Montana Source Test Protocol and Procedures Manual, except that prior notification of the test is not required. Each observation period must be a minimum of 6 minutes unless any one reading is 20% or greater, then the observation period must be a minimum of 20 minutes or until a violation of the standard has been documented, whichever is a shorter period of time (ARM 17.8.1213).

- V.4. As required by the Department and Section III.A.1, Plum Creek shall perform a Method 5 source test, or another Department approved source test method, to monitor compliance with the particulate emissions limit in Section III.V.2. The test methods shall be conducted in accordance with the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106 and ARM 17.8.1213).

Recordkeeping

- V.5. If weekly visual surveys are performed, Plum Creek shall maintain, on-site, a log including all visual observations monitoring compliance with the visual survey requirement. The log shall include the required information, the date, the time, and the initials of the documenting personnel (ARM 17.8.1212).
- V.6. All compliance source test recordkeeping shall be performed in accordance with the test method used and the Montana Source Test Protocol and Procedures Manual, and shall be maintained on site. The reports must be submitted in accordance with the Montana Source Test Protocol and Procedures Manual except that any Method 9 source test reports shall be maintained on-site and shall be submitted to the Department only upon request (ARM 17.8.106 and ARM 17.8.1212).

Reporting

- V.7. All source test report(s) shall be submitted to the Department in accordance with the Montana Source Test Protocol and Procedures Manual except that any Method 9 source test reports shall be maintained on-site and shall be submitted to the Department only upon request (ARM 17.8.1212).
- V.8. The annual compliance certification required by Section V.B must contain a certification statement for the above applicable requirements (ARM 17.8.1212).
- V.9. The semiannual compliance monitoring reports shall provide (ARM 17.8.1212):
- a. If weekly visual surveys are performed during the reporting period, a summary of the results contained in the weekly visual observations log; and
 - b. A summary of results of any source testing that was performed during the reporting period.

SECTION IV. NON-APPLICABLE REQUIREMENTS

Air Quality Administrative Rules of Montana (ARM) and Federal Regulations identified as not applicable to the facility or to a specific emissions unit at the time of the permit issuance are listed below (ARM 17.8.1214). The following list does not preclude the need to comply with any new requirements that may become applicable during the permit term.

A. Facility-Wide

Rule Citation		Reason
State	Federal	
	40 CFR 60, Subpart K, Ka, and Kb; and 40 CFR 61, Subpart J.	These requirements are not applicable because this facility is not an "affected facility" under these regulations.
ARM 17.8.321, ARM 17.8.323, ARM 17.8.331, ARM 17.8.332, ARM 17.8.333, and ARM 17.8.334.		These rules are not applicable because the facility is not listed in the source category cited in the rules.

B. Emission Units

The permit application identified applicable requirements: non-applicable requirements were not listed. The sources for which previous non-applicable requirements were submitted are no longer present.

SECTION V. GENERAL PERMIT CONDITIONS

A. Compliance Requirements

ARM 17.8, Subchapter 12, Operating Permit Program §1210(2)(a)-(c)&(e), §1206(6)(c)&(b)

1. The permittee must comply with all conditions of the permit. Any noncompliance with the terms or conditions of the permit constitutes a violation of the Montana Clean Air Act, and may result in enforcement action, permit modification, revocation and reissuance, or termination, or denial of a permit renewal application under ARM Title 17, Chapter 8, Subchapter 12.
2. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.
3. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. If appropriate, this factor may be considered as a mitigating factor in assessing a penalty for noncompliance with an applicable requirement if the source demonstrates that both the health, safety or environmental impacts of halting or reducing operations would be more serious than the impacts of continuing operations, and that such health, safety or environmental impacts were unforeseeable and could not have otherwise been avoided.
4. The permittee shall furnish to the Department, within a reasonable time set by the Department (not to be less than 15 days), any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Department copies of those records that are required to be kept pursuant to the terms of the permit. This subsection does not impair or otherwise limit the right of the permittee to assert the confidentiality of the information requested by the Department, as provided in 75-2-105, MCA.
5. Any schedule of compliance for applicable requirements with which the source is not in compliance with at the time of permit issuance shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it was based.
6. For applicable requirements that will become effective during the permit term, the source shall meet such requirements on a timely basis unless a more detailed plan or schedule is required by the applicable requirement or the Department.

B. Certification Requirements

ARM 17.8, Subchapter 12, Operating Permit Program §1207 and §1213(7)(a)&(c)-(d)

1. Any application form, report, or compliance certification submitted pursuant to ARM Title 17, Chapter 8, Subchapter 12, shall contain certification by a responsible official of truth, accuracy and completeness. This certification and any other certification required under ARM Title 17, Chapter 8, Subchapter 12, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

2. Compliance certifications shall be submitted by February 15 of each year, or more frequently if otherwise specified in an applicable requirement or elsewhere in the permit. Each certification must include the required information for the previous calendar year (i.e., January 1 – December 31).
3. Compliance certifications shall include the following:
 - a. The identification of each term or condition of the permit that is the basis of the certification;
 - b. The identification of the method(s) or other means used by the owner or operator for determining the status of compliance with each term and condition during the certification period, consistent with ARM 17.8.1212;
 - c. The status of compliance with each term and condition for the period covered by the certification, *including whether compliance during the period was continuous or intermittent* (based on the method or means identified in ARM 17.8.1213(7)(c)(ii), as described above); and
 - d. Such other facts as the Department may require to determine the compliance status of the source.
4. All compliance certifications must be submitted to the Environmental Protection Agency, as well as to the Department, at the addresses listed in the Notification Addresses Appendix of this permit.

C. Permit Shield

ARM 17.8, Subchapter 12, Operating Permit Program §1214(1)-(4)

1. The applicable requirements and non-federally enforceable requirements are included and specifically identified in this permit and the permit includes a precise summary of the requirements not applicable to the source. Compliance with the conditions of the permit shall be deemed compliance with any applicable requirements and any non-federally enforceable requirements as of the date of permit issuance.
2. The permit shield described in 1 above shall remain in effect during the appeal of any permit action (renewal, revision, reopening, or revocation and reissuance) to the Board of Environmental Review (Board), until such time as the Board renders its final decision.
3. Nothing in this permit alters or affects the following:
 - a. The provisions of Sec. 7603 of the FCAA, including the authority of the administrator under that section;
 - b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
 - c. The applicable requirements of the Acid Rain Program, consistent with Sec. 7651g(a) of the FCAA;
 - d. The ability of the administrator to obtain information from a source pursuant to Sec. 7414 of the FCAA;

- e. The ability of the Department to obtain information from a source pursuant to the Montana Clean Air Act, Title 75, Chapter 2, MCA;
 - f. The emergency powers of the Department under the Montana Clean Air Act, Title 75, Chapter 2, MCA; and
 - g. The ability of the Department to establish or revise requirements for the use of Reasonably Available Control Technology (RACT) as defined in ARM Title 17, Chapter 8. However, if the inclusion of a RACT into the permit pursuant to ARM Title 17, Chapter 8, Subchapter 12, is appealed to the Board, the permit shield, as it applies to the source's existing permit, shall remain in effect until such time as the Board has rendered its final decision.
- 4. Nothing in this permit alters or affects the ability of the Department to take enforcement action for a violation of an applicable requirement or permit term demonstrated pursuant to ARM 17.8.106, Source Testing Protocol.
 - 5. Pursuant to ARM 17.8.132, for the purpose of submitting a compliance certification, nothing in these rules shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether a source would have been in compliance. However, when compliance or noncompliance is demonstrated by a test or procedure provided by permit or other applicable requirements, the source shall then be presumed to be in compliance or noncompliance unless that presumption is overcome by other relevant credible evidence.
 - 6. The permit shield will not extend to minor permit modifications or changes not requiring a permit revision (see Sections I & J).
 - 7. The permit shield will extend to significant permit modifications and transfer or assignment of ownership (see Sections K & O).

D. Monitoring, Recordkeeping, and Reporting Requirements

ARM 17.8, Subchapter 12, Operating Permit Program §1212(2)&(3)

- 1. Unless otherwise provided in this permit, the permittee shall maintain compliance monitoring records that include the following information:
 - a. The date, place as defined in the permit, and time of sampling or measurement;
 - b. The date(s) analyses were performed;
 - c. The company or entity that performed the analyses;
 - d. The analytical techniques or methods used;
 - e. The results of such analyses; and
 - f. The operating conditions at the time of sampling or measurement.
- 2. The permittee shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. All monitoring data, support information, and required reports

and summaries may be maintained in computerized form at the plant site if the information is made available to Department personnel upon request, which may be for either hard copies or computerized format. Strip-charts must be maintained in their original form at the plant site and shall be made available to Department personnel upon request.

3. The permittee shall submit to the Department, at the addresses located in the Notification Addresses Appendix of this permit, reports of any required monitoring by February 15 and August 15 of each year, or more frequently if otherwise specified in an applicable requirement or elsewhere in the permit. The monitoring report submitted on February 15 of each year must include the required monitoring information for the period of July 1 through December 31 of the previous year. The monitoring report submitted on August 15 of each year must include the required monitoring information for the period of January 1 through June 30 of the current year. All instances of deviations from the permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official, consistent with ARM 17.8.1207.

E. Prompt Deviation Reporting

ARM 17.8, Subchapter 12, Operating Permit Program §1212(3)(c)

The permittee shall promptly report deviations from permit requirements, including those attributable to upset conditions as defined in the permit, the probable cause of such deviations, and any corrective actions or preventive measures taken. To be considered prompt, deviations shall be reported to the Department within the following timeframes (unless otherwise specified in an applicable requirement):

1. For deviations which may result in emissions potentially in violation of permit limitations:
 - a. An initial phone notification (or faxed or electronic notification) describing the incident within 24 hours (or the next business day) of discovery; and,
 - b. A follow-up written, faxed, or electronic report within 30 days of discovery of the deviation that describes the probable cause of the reported deviation and any corrective actions or preventative measures taken.
2. For deviations attributable to malfunctions, deviations shall be reported to the Department in accordance with the malfunction reporting requirements under ARM 17.8.110; and
3. For all other deviations, deviations shall be reported to the Department via a written, faxed, or electronic report within 90 days of discovery (as determined through routine internal review by the permittee).

Prompt deviation reports do not need to be resubmitted with regular semiannual (or other routine) reports, but may be referenced by the date of submittal.

F. Emergency Provisions

ARM 17.8, Subchapter 12, Operating Permit Program §1201(13) and §1214(5), (6)&(8)

1. An “emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation and causes the source to exceed a technology-based emission limitation under this permit due to the unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of reasonable preventive maintenance, careless or improper operation, or operator error.

2. An emergency constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the permittee demonstrates through properly signed, contemporaneous logs, or other relevant evidence, that:
 - a. An emergency occurred and the permittee can identify the cause(s) of the emergency;
 - b. The permitted facility was at the time being properly operated;
 - c. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in the permit; and
 - d. The permittee submitted notice of the emergency to the Department within 2 working days of the time when emission limitations were exceeded due to the emergency. This notice fulfills the requirements of ARM 17.8.1212(3)(c). This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.
3. These emergency provisions are in addition to any emergency, malfunction or upset provision contained in any applicable requirement.

G. Inspection and Entry

ARM 17.8, Subchapter 12, Operating Permit Program §1213(3)&(4)

1. Upon presentation of credentials and other requirements as may be required by law, the permittee shall allow the Department, the administrator, or an authorized representative (including an authorized contractor acting as a representative of the Department or the administrator) to perform the following:
 - a. Enter the premises where a source required to obtain a permit is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
 - b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
 - c. Inspect at reasonable times any facilities, emission units, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
 - d. As authorized by the Montana Clean Air Act and rules promulgated thereunder, sample or monitor, at reasonable times, any substances or parameters at any location for the purpose of assuring compliance with the permit or applicable requirements.
2. The permittee shall inform the inspector of all workplace safety rules or requirements at the time of inspection. This section shall not limit in any manner the Department's statutory right of entry and inspection as provided for in 75-2-403, MCA.

H. Fee Payment

ARM 17.8, Subchapter 12, Operating Permit Program §1210(2)(f) and ARM 17.8, Subchapter 5, Air Quality Permit Application, Operation, and Open Burning Fees §505(3)-(5) (STATE ONLY)

1. The permittee must pay application and operating fees, pursuant to ARM Title 17, Chapter 8, Subchapter 5.

2. Annually, the Department shall provide the permittee with written notice of the amount of the fee and the basis for the fee assessment. The air quality operation fee is due 30 days after receipt of the notice, unless the fee assessment is appealed pursuant to ARM 17.8.511. If any portion of the fee is not appealed, that portion of the fee that is not appealed is due 30 days after receipt of the notice. Any remaining fee, which may be due after the completion of an appeal, is due immediately upon issuance of the Board's decision or upon completion of any judicial review of the Board's decision.
3. If the permittee fails to pay the required fee (or any required portion of an appealed fee) within 90 days of the due date of the fee, the Department may impose an additional assessment of 15% of the fee (or any required portion of an appealed fee) or \$100, whichever is greater, plus interest on the fee (or any required portion of an appealed fee), computed at the interest rate established under 15-31-510(3), MCA.

I. Minor Permit Modifications

ARM 17.8, Subchapter 12, Operating Permit Program §1226(3)&(11)

1. An application for a minor permit modification need only address in detail those portions of the permit application that require revision, updating, supplementation, or deletion, and may reference any required information that has been previously submitted.
2. The permit shield under ARM 17.8.1214 will not extend to any minor modifications processed pursuant to ARM 17.8.1226.

J. Changes Not Requiring Permit Revision

ARM 17.8, Subchapter 12, Operating Permit Program §1224(1)-(3), (5)&(6)

1. The permittee is authorized to make changes within the facility as described below, provided the following conditions are met:
 - a. The proposed changes do not require the permittee to obtain a Montana Air Quality Permit under ARM Title 17, Chapter 8, Subchapter 7;
 - b. The proposed changes are not modifications under Title I of the FCAA, or as defined in ARM Title 17, Chapter 8, Subchapters 8, 9, or 10;
 - c. The emissions resulting from the proposed changes do not exceed the emissions allowable under this permit, whether expressed as a rate of emissions or in total emissions;
 - d. The proposed changes do not alter permit terms that are necessary to enforce applicable emission limitations on emission units covered by the permit; and
 - e. The facility provides the administrator and the Department with written notification at least 7 days prior to making the proposed changes.
2. The permittee and the Department shall attach each notice provided pursuant to 1.e above to their respective copies of this permit.
3. Pursuant to the conditions above, the permittee is authorized to make Section 502(b)(10) changes, as defined in ARM 17.8.1201(30), without a permit revision. For each such change, the written notification required under 1.e above shall include a description of the change within the source, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.

4. The permittee may make a change not specifically addressed or prohibited by the permit terms and conditions without requiring a permit revision, provided the following conditions are met:
 - a. Each proposed change does not weaken the enforceability of any existing permit conditions;
 - b. The Department has not objected to such change;
 - c. Each proposed change meets all applicable requirements and does not violate any existing permit term or condition; and
 - d. The permittee provides contemporaneous written notice to the Department and the administrator of each change that is above the level for insignificant emission units as defined in ARM 17.8.1201(22) and 17.8.1206(3), and the written notice describes each such change, including the date of the change, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result of the change.
5. The permit shield authorized by ARM 17.8.1214 shall not apply to changes made pursuant to ARM 17.8.1224(3) and (5), but is applicable to terms and conditions that allow for increases and decreases in emissions pursuant to ARM 17.8.1224(4).

K. Significant Permit Modifications

ARM 17.8, Subchapter 12, Operating Permit Program §1227(1), (3)&(4)

1. The modification procedures set forth in 2 below must be used for any application requesting a significant modification of this permit. Significant modifications include the following:
 - a. Any permit modification that does not qualify as either a minor modification or as an administrative permit amendment;
 - b. Every significant change in existing permit monitoring terms or conditions;
 - c. Every relaxation of permit reporting or recordkeeping terms or conditions that limit the Department's ability to determine compliance with any applicable rule, consistent with the requirements of the rule; or
 - d. Any other change determined by the Department to be significant.
2. Significant modifications shall meet all requirements of ARM Title 17, Chapter 8, including those for applications, public participation, and review by affected states and the administrator, as they apply to permit issuance and renewal, except that an application for a significant permit modification need only address in detail those portions of the permit application that require revision, updating, supplementation or deletion.
3. The permit shield provided for in ARM 17.8.1214 shall extend to significant modifications.

L. Reopening for Cause

ARM 17.8, Subchapter 12, Operating Permit Program §1228(1)&(2)

This permit may be reopened and revised under the following circumstances:

1. Additional applicable requirements under the FCAA become applicable to the facility when the permit has a remaining term of 3 or more years. Reopening and revision of the permit shall be completed not later than 18 months after promulgation of the applicable requirement. No

reopening is required under ARM 17.8.1228(1)(a) if the effective date of the applicable requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms or conditions have been extended pursuant to ARM 17.8.1220(12) or 17.8.1221(2);

2. Additional requirements (including excess emission requirements) become applicable to an affected source under the Acid Rain Program. Upon approval by the administrator, excess emission offset plans shall be deemed incorporated into the permit;
3. The Department or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emission standards or other terms or conditions of the permit; or
4. The administrator or the Department determines that the permit must be revised or revoked and reissued to ensure compliance with the applicable requirements.

M. Permit Expiration and Renewal

ARM 17.8, Subchapter 12, Operating Permit Program §1210(2)(g), §1220(11)&(12), and §1205(2)(d)

1. This permit is issued for a fixed term of 5 years.
2. Renewal of this permit is subject to the same procedural requirements that apply to permit issuance, including those for application, content, public participation, and affected state and administrator review.
3. Expiration of this permit terminates the permittee's right to operate unless a timely and administratively complete renewal application has been submitted consistent with ARM 17.8.1221 and 17.8.1205(2)(d). If a timely and administratively complete application has been submitted, all terms and conditions of the permit, including the application shield, remain in effect after the permit expires until the permit renewal has been issued or denied.
4. For renewal, the permittee shall submit a complete air quality operating permit application to the Department not later than 6 months prior to the expiration of this permit, unless otherwise specified. If necessary to ensure that the terms of the existing permit will not lapse before renewal, the Department may specify, in writing to the permittee, a longer time period for submission of the renewal application. Such written notification must be provided at least 1 year before the renewal application due date established in the existing permit.

N. Severability Clause

ARM 17.8, Subchapter 12, Operating Permit Program §1210(2)(i)&(l)

1. The administrative appeal or subsequent judicial review of the issuance by the Department of an initial permit under this subchapter shall not impair in any manner the underlying applicability of all applicable requirements, and such requirements continue to apply as if a final permit decision had not been reached by the Department.
2. If any provision of a permit is found to be invalid, all valid parts that are severable from the invalid part remain in effect. If a provision of a permit is invalid in one or more of its applications, the provision remains in effect in all valid applications that are severable from the invalid applications.

O. Transfer or Assignment of Ownership

ARM 17.8, Subchapter 12, Operating Permit Program §1225(2)&(4)

1. If an administrative permit amendment involves a change in ownership or operational control, the applicant must include in its request to the Department a written agreement containing a specific date for the transfer of permit responsibility, coverage and liability between the current and new permittee.
2. The permit shield provided for in ARM17.8.1214 shall not extend to administrative permit amendments.

P. Emissions Trading, Marketable Permits, Economic Incentives

ARM 17.8, Subchapter 12, Operating Permit Program §1226(2)

Notwithstanding ARM 17.8.1226(1) and (7), minor air quality operating permit modification procedures may be used for permit modifications involving the use of economic incentives, marketable permits, emissions trading, and other similar approaches, to the extent that such minor permit modification procedures are explicitly provided for in the Montana State Implementation Plan or in applicable requirements promulgated by the administrator.

Q. No Property Rights Conveyed

ARM 17.8, Subchapter 12, Operating Permit Program §1210(2)(d)

This permit does not convey any property rights of any sort, or any exclusive privilege.

R. Testing Requirements

ARM 17.8, Subchapter 1, General Provisions §105

The permittee shall comply with ARM 17.8.105.

S. Source Testing Protocol

ARM 17.8, Subchapter 1, General Provisions §106

The permittee shall comply with ARM 17.8.106.

T. Malfunctions

ARM 17.8, Subchapter 1, General Provisions §110

The permittee shall comply with ARM 17.8.110.

U. Circumvention

ARM 17.8, Subchapter 1, General Provisions §111

The permittee shall comply with ARM 17.8.111.

V. Motor Vehicles

ARM 17.8, Subchapter 3, Emission Standards §325

The permittee shall comply with ARM 17.8.325.

W. Annual Emissions Inventory

ARM 17.8, Subchapter 5, Air Quality Permit Application, Operation and Open Burning Fees §505 (STATE ONLY)

The permittee shall supply the Department with annual production and other information for all emission units necessary to calculate actual or estimated actual amount of air pollutants emitted during each calendar year. Information shall be gathered on a calendar-year basis and submitted to the Department by the date required in the emission inventory request, unless otherwise specified in this permit. Information shall be in the units required by the Department.

X. Open Burning

ARM 17.8, Subchapter 6, Open Burning §604, 605 and 606

The permittee shall comply with ARM 17.8.604, 605 and 606.

Y. Montana Air Quality Permits

ARM 17.8, Subchapter 7, Permit, Construction and Operation of Air Contaminant Sources §745 and 764 (ARM 17.8.745(1) and 764(1)(b) are STATE ENFORCEABLE ONLY until approval by the EPA as part of the SIP)

1. Except as specified, no person shall construct, install, modify or use any air contaminant source or stack associated with any source without first obtaining a permit from the Department or Board. A permit is not required for those sources or stacks as specified by ARM 17.8.744(1)(a)-(k).
2. The permittee shall comply with ARM 17.8.743, 744, 745, 748, and 764.
3. ARM 17.8.745(1) specifies de minimis changes as construction or changed conditions of operation at a facility holding a Montana Air Quality Permit (MAQP) issued under Chapter 8 that does not increase the facility's potential to emit by more than 5 tons per year of any pollutant, except (STATE ENFORCEABLE ONLY until approved by the EPA as part of the SIP):
 - a. Any construction or changed condition that would violate any condition in the facility's existing MAQP or any applicable rule contained in Chapter 8 is prohibited, except as provided in ARM 17.8.745(2);
 - b. Any construction or changed conditions of operation that would qualify as a major modification under Subchapters 8, 9 or 10 of Chapter 8;
 - c. Any construction or changed condition of operation that would affect the plume rise or dispersion characteristic of emissions that would cause or contribute to a violation of an ambient air quality standard or ambient air increment as defined in ARM 17.8.804;
 - d. Any construction or improvement project with a potential to emit more than 5 tons per year may not be artificially split into smaller projects to avoid Montana Air Quality Permitting; or
 - e. Emission reductions obtained through offsetting within a facility are not included when determining the potential emission increase from construction or changed conditions of operation, unless such reductions are made federally enforceable.

4. Any facility making a de minimis change pursuant to ARM 17.8.745(1) shall notify the Department if the change would include a change in control equipment, stack height, stack diameter, stack gas temperature, source location or fuel specifications, or would result in an increase in source capacity above its permitted operation or the addition of a new emission unit. The notice must be submitted, in writing, 10 days prior to start up or use of the proposed de minimis change, or as soon as reasonably practicable in the event of an unanticipated circumstance causing the de minimis change, and must include the information requested in ARM 17.8.745(1) (STATE ENFORCEABLE ONLY until approval by the EPA as part of the SIP).

Z. National Emission Standard for Asbestos

40 CFR, Part 61, Subpart M

The permittee shall not conduct any asbestos abatement activities except in accordance with 40 CFR 61, Subpart M (National Emission Standard for Hazardous Air Pollutants for Asbestos).

AA. Asbestos

ARM 17.74, Subchapter 3, General Provisions and Subchapter 4, Fees

The permittee shall comply with ARM 17.74.301, *et seq.*, and ARM 17.74.401, *et seq.* (State only)

BB. Stratospheric Ozone Protection – Servicing of Motor Vehicle Air Conditioners

40 CFR, Part 82, Subpart B

If the permittee performs a service on motor vehicles and this service involves ozone-depleting substance/refrigerant in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR 82, Subpart B.

CC. Stratospheric Ozone Protection – Recycling and Emission Reductions

40 CFR, Part 82, Subpart F

The permittee shall comply with the standards for recycling and emission reductions in 40 CFR 82, Subpart F, except as provided for MVACs in Subpart B:

1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to §82.156;
2. Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to §82.158;
3. Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technical certification program pursuant to §82.161;
4. Persons disposing of small appliances, MVACs and MVAC-like (as defined at §82.152) appliances must comply with recordkeeping requirements pursuant to §82.166;
5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to §82.156; and
6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to §82.166.

DD. Emergency Episode Plan

The permittee shall comply with the requirements contained in Chapter 9.7 of the State of Montana Air Quality Control Implementation Plan.

Each major source emitting 100 tons per year located in a Priority I Air Quality Control Region, shall submit to the Department a legally enforceable Emergency Episode Action Plan (EEAP) that details how the source will curtail emissions during an air pollutant emergency episode. The industrial EEAP shall be in accordance with the Department's EEAP and shall be submitted according to a timetable developed by the Department, following Priority I reclassification.

EE. Definitions

Terms not otherwise defined in this permit or in the Definitions and Abbreviations Appendix of this permit, shall have the meaning assigned to them in the referenced regulations.

APPENDICES

Appendix A INSIGNIFICANT EMISSION UNITS

Disclaimer: The information in this appendix is not State or Federally enforceable, but is presented to assist Plum Creek, the permitting authority, inspectors, and the public.

Pursuant to ARM 17.8.1201(22)(a), an insignificant emissions unit means any activity or emissions unit located within a source that: (i) has a potential to emit less than 5 tons per year of any regulated pollutant; (ii) has a potential to emit less than 500 pounds per year of lead; (iii) has a potential to emit less than 500 pounds per year of hazardous air pollutants listed pursuant to Section 7412 (b) of the FCAA; and (iv) is not regulated by an applicable requirement, other than a generally applicable requirement that applies to all emission units subject to Subchapter 12.

List of Insignificant Activities:

The following table of insignificant sources and/or activities was provided by Plum Creek.

Insignificant Activities and Emissions Units	
Emission Unit ID	Description
F02	Rail Activity
F03	Landfill Activity
H01	Gasoline Fueling Tanks
H02	Diesel Fueling Tanks
H03	Propane Fueling Tanks
H06	Machine Shop - Parts Washer
M12	MDF Reject Fiber Cyclone and Baghouse
M14	Line 1 MDF Fire Dump Cyclone (emergency only)
M27	MDF Ammonia Treatment Stack
M28	MDF Building Fugitives
P01	Log Debarker
P03	Bark Hog (Wet)
P09	Wet Fuel Silo
P10	Dry Fuel Silo
P11	Emergency Fuel Pile
P12	Woodwaste Chipper
P15	Plywood Building
P24	Plywood Fines Bin Target Box
S01	Log Debarker
S03	Bark Hog (wet)
S04	Sawmill Chip Truck Bin Loadout
S06	Hog Fuel Truck Bin Loadout
S07	Planer Chip Truck Bin Loadout
S09	Sawmill Bldg. Saws
S11	Planer Building, Saws
S17	Sawmill Sawdust Bin Cyclone

Appendix B DEFINITIONS and ABBREVIATIONS

"Act" means the Clean Air Act, as amended, 42 U.S. 7401, *et seq.*

"Administrative permit amendment" means an air quality operating permit revision that:

- (a) corrects typographical errors;
- (b) identifies a change in the name, address or phone number of any person identified in the air quality operating permit, or identifies a similar minor administrative change at the source;
- (c) requires more frequent monitoring or reporting by Plum Creek;
- (d) requires changes in monitoring or reporting requirements that the Department deems to be no less stringent than current monitoring or reporting requirements;
- (e) allows for a change in ownership or operational control of a source if the Department has determined that no other change in the air quality operating permit is necessary, consistent with ARM 17.8.1225; or
- (f) incorporates any other type of change which the Department has determined to be similar to those revisions set forth in (a)-(e), above.

"Applicable requirement" means all of the following as they apply to emission units in a source requiring an air quality operating permit (including requirements that have been promulgated or approved by the Department or the administrator through rule making at the time of issuance of the air quality operating permit, but have future-effective compliance dates, provided that such requirements apply to sources covered under the operating permit):

- (a) any standard, rule, or other requirement, including any requirement contained in a consent decree or judicial or administrative order entered into or issued by the Department, that is contained in the Montana state implementation plan approved or promulgated by the administrator through rule making under Title I of the FCAA;
- (b) any federally enforceable term, condition or other requirement of any Montana Air Quality Permit issued by the Department under Subchapters 7, 8, 9 and 10 of this chapter, or pursuant to regulations approved or promulgated through rule making under Title I of the FCAA, including parts C and D;
- (c) any standard or other requirement under Section 7411 of the FCAA, including Section 7411(d);
- (d) any standard or other requirement under Section 7412 of the FCAA, including any requirement concerning accident prevention under Section 7412(r)(7), but excluding the contents of any risk management plan required under Section 7412(r);
- (e) any standard or other requirement of the acid rain program under Title IV of the FCAA or regulations promulgated thereunder;
- (f) any requirements established pursuant to Section 7661c(b) or Section 7414(a)(3) of the FCAA;

- (g) any standard or other requirement governing solid waste incineration, under Section 7429 of the FCAA;
- (h) any standard or other requirement for consumer and commercial products, under Section 7511b(e) of the FCAA;
- (i) any standard or other requirement for tank vessels, under Section 7511b(f) of the FCAA;
- (j) any standard or other requirement of the regulations promulgated to protect stratospheric ozone under Title VI of the FCAA, unless the administrator determines that such requirements need not be contained in an air quality operating permit;
- (k) any national ambient air quality standard or increment or visibility requirement under part C of Title I of the FCAA, but only as it would apply to temporary sources permitted pursuant to Section 7661c(e) of the FCAA; or
- (l) any federally enforceable term or condition of any air quality open burning permit issued by the Department under Subchapter 6.

"Department" means the Montana Department of Environmental Quality.

"Emissions unit" means any part or activity of a stationary source that emits or has the potential to emit any regulated air pollutant or any pollutant listed under Section 7412(b) of the FCAA. This term is not meant to alter or affect the definition of the term "unit" for purposes of Title IV of the FCAA.

"FCAA" means the Federal Clean Air Act, as amended.

"Federally enforceable" means all limitations and conditions which are enforceable by the administrator, including those requirements developed pursuant to 40 CFR Parts 60 and 61, requirements within the Montana state implementation plan, and any permit requirement established pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR 51, Subpart I, including operating permits issued under an EPA approved program that is incorporated into the Montana state implementation plan and expressly requires adherence to any permit issued under such program.

"Fugitive emissions" means those emissions which could not reasonably pass through a stack, chimney, vent, or other functionally equivalent opening.

"General air quality operating permit" or **"general permit"** means an air quality operating permit that meets the requirements of ARM 17.8.1222, covers multiple sources in a source category, and is issued in lieu of individual permits being issued to each source.

"Hazardous air pollutant" means any air pollutant listed as a hazardous air pollutant pursuant to Section 112(b) of the FCAA.

"Non-federally enforceable requirement" means the following as they apply to emissions units in a source requiring an air quality operating permit:

- (a) any standard, rule, or other requirement, including any requirement contained in a consent decree, or judicial or administrative order entered into or issued by the Department, that is not contained in the Montana state implementation plan approved or promulgated by the administrator through rule making under Title I of the FCAA;

- (b) any term, condition or other requirement contained in any Montana Air Quality Permit issued by the Department under Subchapters 7, 8, 9 and 10 of this chapter that is not federally enforceable;
- (c) does not include any Montana ambient air quality standard contained in Subchapter 2 of this chapter.

"Permittee" means the owner or operator of any source subject to the permitting requirements of this subchapter, as provided in ARM 17.8.1204, that holds a valid air quality operating permit or has submitted a timely and complete permit application for issuance, renewal, amendment, or modification pursuant to this subchapter.

"Regulated air pollutant" means the following:

- (a) nitrogen oxides or any volatile organic compounds;
- (b) any pollutant for which a national ambient air quality standard has been promulgated;
- (c) any pollutant that is subject to any standard promulgated under Section 7411 of the FCAA;
- (d) any Class I or II substance subject to a standard promulgated under or established by Title VI of the FCAA; or
- (e) any pollutant subject to a standard or other requirement established or promulgated under Section 7412 of the FCAA, including but not limited to the following:
 - (i) any pollutant subject to requirements under Section 7412(j) of the FCAA. If the administrator fails to promulgate a standard by the date established in Section 7412(e) of the FCAA, any pollutant for which a subject source would be major shall be considered to be regulated on the date 18 months after the applicable date established in Section 7412(e) of the FCAA;
 - (ii) any pollutant for which the requirements of Section 7412(g)(2) of the FCAA have been met but only with respect to the individual source subject to Section 7412(g)(2) requirement.

"Responsible official" means one of the following:

- (a) For a corporation: a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and either:
 - (i) the facilities employ more than 250 persons or have gross annual sales or expenditures exceeding \$25 million (in second quarter 1980 dollars); or
 - (ii) the delegation of authority to such representative is approved in advance by the Department.
- (b) For a partnership or sole proprietorship: a general partner or the proprietor, respectively.

- (c) For a municipality, state, federal, or other public agency: either a principal executive officer or ranking elected official. For the purposes of this part, a principal executive officer of a federal agency includes the chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., a regional administrator of the environmental protection agency).
- (d) For affected sources: the designated representative in so far as actions, standards, requirements, or prohibitions under Title IV of the FCAA or the regulations promulgated thereunder are concerned, and the designated representative for any other purposes under this subchapter.

Abbreviations:

ARM	Administrative Rules of Montana
ASTM	American Society of Testing Materials
BACT	Best Available Control Technology
BDT	bone dry tons
Btu	British thermal unit
CF	cubic feet
CFR	Code of Federal Regulations
CO	carbon monoxide
DEQ	Department of Environmental Quality
dscf	dry standard cubic foot
dscfm	dry standard cubic foot per minute
EEAP	Emergency Episode Action Plan
EPA	U.S. Environmental Protection Agency
EPA Method	Test methods contained in 40 CFR 60, Appendix A
ESP	Electrostatic Precipitator
EU	emissions unit
FCAA	Federal Clean Air Act
gr	grains
HAP	hazardous air pollutant
IEU	insignificant emissions unit
lb	pound
MAQP	Montana Air Quality Permit
Mbdft	thousand board feet
MDF	Medium Density Fiberboard
Method 5	40 CFR 60, Appendix A, Method 5
Method 9	40 CFR 60, Appendix A, Method 9
MMbdft	million board feet
MMBtu	million British thermal units
N.	North
NO _x	oxides of nitrogen
NO ₂	nitrogen dioxide
O ₂	oxygen
Pb	lead
PM	particulate matter
PM ₁₀	particulate matter less than 10 microns in size
psi	pounds per square inch
S.	South
scf	standard cubic feet
SIC	Source Industrial Classification
SO ₂	sulfur dioxide
SO _x	oxides of sulfur
tpy	tons per year
U.S.C.	United States Code
VE	visible emissions
VOC	volatile organic compound

Appendix C NOTIFICATION ADDRESSES

Compliance Notifications:

Montana Department of Environmental Quality
Permitting and Compliance Division
Air Resources Management Bureau
P.O. Box 200901
Helena, MT 59620-0901

United States EPA
Air Program Coordinator
Region VIII, Montana Office
10 W. 15th Street, Suite 3200
Helena, MT 59626

Permit Modifications:

Montana Department of Environmental Quality
Permitting and Compliance Division
Air Resources Management Bureau
P.O. Box 200901
Helena, MT 59620-0901

Office of Partnerships and Regulatory Assistance
Air and Radiation Program
US EPA Region VIII 8P-AR
1595 Wynkoop Street
Denver, CO 80202-1129

Appendix D AIR QUALITY INSPECTOR INFORMATION

Disclaimer: The information in this appendix is not State or Federally enforceable, but is presented to assist Plum Creek, permitting authority, inspectors, and the public.

1. Directions to Plant: From Kalispell, Montana

Take Highway 2 North. At the Blue Moon Restaurant Intersection turn right on Highway 2 and head toward Columbia Falls. Turn left on 12th Avenue West and proceed three blocks until reaching the cedar Plum Creek Office Building.

2. Safety Equipment Required:

Plum Creek requires that inspectors comply with these general safety rules:

- (1) hard hats must be worn while inspecting the facility;
- (2) safety glasses must be worn while inspecting the facility; and
- (3) all air quality inspectors must be accompanied by a Plum Creek representative during any facility inspections.

3. Facility Plot Plan:

A plot plan as submitted by Plum Creek in the Title V Operating Permit Application on July 12, 1995.

Appendix E COMPLIANCE ASSURANCE MONITORING (CAM)

I. Emitting Unit: B01 - Riley-Union Stoker Boiler

Pollutant: PM₁₀

Control Device: Dry Electrostatic Precipitator (DESP) – 4 Fields

Emission Limit: 6.94 lb/hr and 30.4 ton/yr (Section III.B)

Monitoring Approach: Key elements of the monitoring approach for this CAM applicable emitting unit are contained in Table I. A complete CAM plan is contained in the Plum Creek application for Title V operating permit renewal (#OP2667-02) and is on file with the Department. Complete copies of this CAM plan are available from the Department upon request.

Table I	
A. General Criteria	
Indicator	DESP Voltage
Measurement Approach	Voltage Meter. A permanent voltage meter measures the secondary voltage for each of the 4 fields of the DESP
Indicator Range	An excursion is defined as an hourly average of less than 24.9 kV. There is no upper limit for voltages for excursions. An excursion triggers an inspection/investigation, corrective action, and a reporting requirement.
B. Performance Criteria	
Data Representativeness	The voltmeter is part of the DESP instrumentation. It has long been known and accepted that low secondary voltage in the fields is indicative of a malfunction. The field's collection efficiency decreases as the voltage decreases within the unit's operating range. In addition, there is no bypass present between the boiler and DESP; therefore, all emissions must route through the DESP.
Verification of Operational Status	NA
Quality Assurance/ Quality Control	The accuracy of each voltage meter will be checked at least semi-annually with a portable unit.
Monitoring Frequency	Continuous (every five minutes)
Data Collection Procedures	Continuous readout on the boiler computer control screen. Every five minutes the computer will record the instantaneous voltage for each of the four fields for that moment. This methodology will provide for 12 recorded voltage readings per hour block. The data will be stored in an electronic database and printed out in paper form for a minimum of five years storage.
Averaging Period	An arithmetic average of the data collected for each given hour block will be generated.

II. **Emitting Unit:** Line 1 - MDF Fiber Dryers

Pollutant: PM₁₀

Control Device: Wet Electrostatic Precipitator (WESP) – 8 Fields

Emission Limit: 23.14 lb/hr and 98.35 ton/yr (See Section III.H)

Monitoring Approach: Key elements of the monitoring approach for this CAM applicable emitting unit are contained in Table II. A complete CAM plan is contained in the Plum Creek application for Title V operating permit renewal and is on file with the Department. Complete copies of this CAM plan are available from the Department upon request.

Table II	
A. General Criteria	
Indicator	WESP Voltage
Measurement Approach	Voltage Meter. A permanent voltage meter measures the secondary voltage for each of the 8 fields of the WESP.
Indicator Range	An excursion is defined as an hourly average of less than 31.9 kV. There is no upper limit for voltages for excursions. An excursion triggers an inspection/investigation, corrective action, and a reporting requirement.
B. Performance Criteria	
Data Representativeness	The voltmeter is part of the WESP instrumentation. It has long been known and accepted that low secondary voltage in the fields is indicative of a malfunction. The field's collection efficiency decreases as the voltage decreases within the unit's operating range. In addition, there is no bypass present between the Line 1 Fiber Dryer and WESP; therefore, all emissions must route through the WESP.
Verification of Operational Status	NA
Quality Assurance/ Quality Control	The accuracy of each voltage meter will be checked at least semi-annually with a portable unit.
Monitoring Frequency	Continuous (every 5 minutes)
Data Collection Procedures	Continuous readout on the Line 1 Fiber Dryer computer control screen. Every five minutes the computer will record the instantaneous voltage for each of the eight fields for that moment. This methodology will provide for 12 recorded voltage readings per hour block. The data will be stored in an electronic database and printed out in paper form for a minimum of five years storage.
Averaging Period	An arithmetic average of the data collected for each given hour block will be generated.

III. **Emitting Unit:** Line 2 – MDF Fiber Dryers

Pollutant: PM₁₀

Control Device: Wet Venturi Scrubbers (2)

Emission Limit: 21.2 lb/hr and 92.9 ton/yr (See Section III.J)

Monitoring Approach: Key elements of the monitoring approach for this CAM applicable emitting unit are contained in Table III. A complete CAM plan is contained in the Plum Creek application for Title V operating permit renewal and is on file with the Department. Complete copies of this CAM plan are available from the Department upon request.

Table III		
A. General Criteria	Indicator Number 1	Indicator Number 2
Indicator	Pressure drop across each of the two Venturi scrubbers and amperage readings for each of the two recycle pumps supplying water to the Venturis.	Temperature drop across each quench duct.
Measurement Approach	Electronic pressure meter and amperage reading equipment.	A thermocouple monitoring the exit air temperature of the dryer and a thermocouple monitoring the inlet air temperature to each venture scrubber.
Indicator Range	An excursion is defined as an hourly average of less than three inches (water) pressure drop across each of the Venturi scrubbers. There is no upper limit for pressure drop across each Venturi scrubber. An excursion triggers an inspection/ investigation, corrective action, and a reporting requirement.	An excursion is defined as a temperature drop of less than 5°F across the quench ducts. There is no upper limit for temperature drop. An excursion triggers an inspection/ investigation, corrective action, and a reporting requirement.
B. Performance Criteria	Indicator Number 1	Indicator Number 2
Data Representativeness	The pressure meter and amperage reading equipment are part of the scrubber instrumentation. Each Venturi scrubber has its own pressure meter and recycle pump amperage reader.	The upstream and downstream thermocouples monitoring the inlet and outlet temperatures are part of the unit instrumentation.
Verification of Operational Status	Amperage reading of each recycle pump indicates operational status.	A temperature drop across the quench duct indicates that water is being used.
Quality Assurance/ Quality Control	The accuracy of each pressure meter will be checked and calibrated at least semi-annually. Pressure taps will be cleaned at a minimum of once per quarter. Amperage readings will be checked on each recycle pump as needed.	The accuracy of each thermocouple will be checked and calibrated at least semi-annually.
Monitoring Frequency	Continuous (every 5 minutes)	Continuous (every five minutes)
Data Collection Procedures	Continuous readout on the Line 2 Fiber Dryer computer control screen. Every five minutes, the computer will record the instantaneous pressure drop for each of the two scrubbers for that moment and will record the amperage for each of the two recycle pumps. This methodology will provide for 12 recorded voltage readings per hour block. The data will be stored in an electronic database and printed out in paper form for a minimum of 5 years storage.	Continuous readout on the Line 2 Fiber Dryer computer control screen. Every five minutes, the computer will record the instantaneous temperature drop across each of the quench ducts. This methodology will provide for 12 recorded voltage readings per hour block. The data will be stored in an electronic database and printed out in paper form for a minimum of 5 years storage.
Averaging Period	An arithmetic average of the data collected for each given hour block will be generated.	An arithmetic average of the data collected for each given hour block will be generated.